The University of North Carolina

THE ONE HUNDRED AND SIXTEENTH SESSION

THE CATALOGUE

1910-1911

THE UNIVERSITY PRESS
CHAPEL HILL, N. C.
1911

THE UNIVERSITY PRESS
CHAPEL HILL, N. C

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CALENDAR

1911

June 5–July 15	Summer Term for Teachers.
June 15–August 25	Summer Law School.
September 6–9	*Wednesday to Saturday.* Examinations for Removal of Conditions.
September 11–13	*Monday to Wednesday.* Entrance examinations. Registration.
September 14	*Thursday.* Lectures begin.
October 12	*Thursday.* University Day.
November 28	Thanksgiving Day.
December 22	*Friday.* Christmas Recess begins.

1912

January 2–3	*Tuesday and Wednesday.* Registration.
January 4	*Thursday.* Lectures begin.
January 15–25	Mid-Year Examinations.
January 26	*Friday.* Lectures begin.
February 22	*Thursday.* Washington's Birthday.
May 4	*Saturday.* Selection of Commencement Orators.
May 13	*Monday.* Last Day for Delivery of Graduating Theses at Registrar's Office.
June 1	*Saturday.* Senior Class Day. Inter-Society Banquets and Reunions.
June 2	*Sunday.* Baccalaureate Sermon. Sermon before the Y. M. C. A.
June 3	*Monday.* Alumni Day. Meeting of the Board of Trustees. Inter-Society Debate.
June 4	*Tuesday.* Commencement Day. Summer Vacation begins.
September 4–7	*Wednesday to Saturday.* Examinations for Removal of Conditions.

PART ONE

FOUNDATION AND GOVERNMENT
TRUSTEES
FACULTY
COMMITTEES

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THE UNIVERSITY

FOUNDATION AND GOVERNMENT. The University was established in obedience to the first Constitution of the State, which was adopted in December, 1776. A clause of section XLI declared that "all useful learning shall be duly encouraged, and promoted in one or more universities." The charter was granted by the General Assembly in 1789, the cornerstone of the Old East Building was laid in 1793, and the University was opened in 1795.

The title, preamble, and first section of the Act of incorporation are as follows:

"*An Act to Establish a University in this State.*"

"WHEREAS in all well regulated Governments, it is the indispensable Duty of every Legislature to consult the Happiness of a rising Generation, and endeavor to fit them for an honorable Discharge of the Social Duties of Life, by paying the strictest attention to their Education: And whereas an University supported by permanent Funds, and well endowed, would have the most direct Tendency to answer the above Purpose:

"I. *Be it therefore enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the Authority of the Same*, That, *Samuel Johnson*, *James Iredell*, *Charles Johnson*, *Hugh Williamson*, *Stephen Cabarrus*, *Richard Dobbs Spaight*, *William Blount*, *Benjamin Williams*, *John Sitgreaves*, *Frederick Hargett*, *Robert Snead*, *Archibald Maclaine*, Honourable *Samuel Ashe*, *Robert Dixon*, *Benjamin Smith*, Honourable *Samuel Spencer*, *John Hay*, *James Hogg*, *Henry William Harrington*, *William Barry Grove*, Reverend *Samuel M'Corkle*, *Adlai Osborne*, *John Stokes*, *John Hamilton*, *Joseph Graham*, Honourable *John Williams*, *Thomas Person*, *Alfred Moore*, *Alexander Mebane*, *Joel Lane*, *Willie Jones*, *Benjamin Hawkins*, *John Haywood*, senior, *John Macon*, *William Richardson Davie* *Joseph Dixon*, *William Lenoir*, *Joseph M'Dowell*, *James Holland and*

William Porter, Esquires, shall be and they are hereby declared to be a body politic and corporate to be known and distinguished by the name of *The Trustees of the University of* North Carolina * and by that name shall have perpetual Succession and a common Seal; and that they the Trustees and their Successors, by the Name aforesaid, or a Majority of them, shall be able and capable in Law to take, demand, receive and possess all Monies, Goods and Chattels that shall be given them for the Use of the said University, and the same apply according to the Will of the Donors, and by Gift, Purchase or Devise to take, have, receive, possess, enjoy and retain to them and their Successors forever, any Lands, Rents, Tenements and Hereditaments, of what Kind, Nature or Quality soever the same may be, in special Trust and Confidence that the same or Profits thereof shall be applied to and for the Use and Purpose of establishing the said University."†

The University is governed by a board of trustees elected by the Legislature and is free from sectionalism, sectarian, or political control. The Governor of the State is *ex-officio* President of the Board of Trustees.

Article IV of the Constitution of 1876 contains the following provisions regarding the University:

"SEC. 6. The General Assembly shall have power to provide for the election of Trustees of the University of North Carolina, in whom, when chosen, shall be vested all the privileges, rights, franchises, and endowments thereof, in anywise granted to or conferred upon the Trustees of said University; and the General Assembly may make such provisions, laws, and regulations from time to time as may be necessary and expedient for the maintenance and management of said University.

"SEC. 7. The General Assembly shall provide that the benefits of the University, as far as practicable, be extended to the youth of the State free of expense for tuition: also all the property which

*The corporate name has been changed to The University of North Carolina.

†Laws of the State of North Carolina, published by James Iredell, Edenton, MDCCXCI.

has heretofore accrued to the State, or shall hereafter accrue, from escheats, unclaimed dividends, or distributive shares of the estates of deceased persons, shall be appropriated to the use of the University."

LOCATION. The seat of the University is Chapel Hill, Orange county, twenty-eight miles northwest of Raleigh. Two daily passenger trains run between Chapel Hill and University Junction, a station on the North Carolina Railroad. The site for the institution was selected because of its healthfulness, its freedom from malaria, its supply of pure water, its beautiful scenery, and its central location in the State.

EQUIPMENT. The University campus contains forty-eight acres of land, affording ample grounds for building and for all sorts of athletic sports. The University owns, contiguous to the campus, five hundred acres of forest lands, which are partly laid off in walks and drives. The University has twenty-one buildings.

The South Building contains two lecture rooms and thirty living rooms.

The Old East Building contains two lecture rooms and twenty-eight living rooms.

The Old West Building contains two lecture rooms, the Historical Museum, and twenty-seven living rooms.

Person Hall contains the Medical Laboratories and a lecture room.

Gerrard Hall is used for morning prayers, for mass meetings and other student assemblies, and for public lectures.

Smith Hall contains the Law library and lecture rooms.

The New West Building contains the Dialectic Literary Society's Hall, the Pharmaceutical Laboratory, two lecture rooms, and nine living rooms.

The New East Building contains the Philanthropic Literary Society's Hall, the Geological Laboratory and Museum, the offices of the North Carolina Geological Survey, and fourteen living rooms.

Memorial Hall commemorates the illustrious dead of the University. It is used at Commencement for public exercises.

The Alumni Hall contains the offices of administration, the

Physical Laboratories, and ten lecture rooms.

The Carr Building, the gift of Gen. J. S. Carr, contains forty-two living rooms for dormitory use.

The Mary Ann Smith Building contains forty living rooms for dormitory use.

The William Preston Bynum, Jr., Gymnasium is the gift of Judge William Preston Bynum, in memory of his grandson, William Preston Bynum, Jr., of the class of 1893. It is furnished with modern apparatus, swimming pool, baths, lockers, and running track; and contains a trophy room and the office of the Instructor in Physical Training.

The Young Men's Christian Association Building, recently completed, gives greater efficiency to the valuable work already being done by the Association.

Chemistry Hall contains Chemical Laboratories, lecture rooms, offices for the instructors, and store rooms.

The new *Library* building, given by Andrew Carnegie, Esq., has now been in use for three years.

Davie Hall, the Biological Laboratory, contains laboratories and lecture rooms for zoology and botany.

The Dissecting Hall is a new, well arranged building for the use of the Medical School, and is apart from the other buildings.

The New Infirmary, a spacious and completely equipped building, was thrown open to the students at the beginning of the session before last.

Commons contains a dining hall where students obtain board at ten dollars a month. The whole enterprise was made possible through the beneficence of Mrs. Frederick Baker, of New York.

University Inn, recently purchased, is used for domitory purposes, and contains a dining hall where students obtain board at fifteen dollars a month.

The Power House contains the electric lighting plant, the central heating plant, filter and pumps of the system of water supply, and the rooms of the University Press.

The general equipment has been improved by a thorough system of sewers and baths, a supply of pure water in all the build-

ings, and hot water heat in all the offices, recitation rooms, and reading rooms.

College Year. The College year begins on the second Thursday in September. It is divided into two terms of four and a half months each. Commencement is held on Tuesday before the first Thursday in June. The summer vacation begins on Commencement day and ends on the Wednesday before the second Thursday in September. There is a Christmas recess of about ten days. The twelfth of October (University Day), Thanksgiving Day, and the twenty-second of February (Washington's Birthday) are holidays.

Degrees. The degrees of Bachelor of Arts, Bachelor of Science, Master of Arts, Master of Science, Doctor of Philosophy, Bachelor of Laws, and Graduate of Pharmacy are conferred by the vote of the Trustees, after the recommendation of the Faculty, upon candidates who have satisfied the requirements of residence and study at the University. Students who are not candidates for a degree may elect any studies they wish, devoting their time entirely to one or two subjects, or selecting groups of such subjects as suit their tastes and purposes.

Graduate Students. Free instruction is given in the College to graduates of colleges, and universities. Women are admitted to the higher courses of the University.

Physical Training. Hearty encouragement is given to athletic sports and to all kinds of physical culture. The athletic field furnishes ample facilities for football and baseball. The Lake Track is admirably adapted for running, bicycling, and general track athletics. Fifteen tennis courts are located on the campus. Systematic exercise in the Bynum Gymnasium under a skilled instructor is required of all students in the College, except Seniors.

General Culture. Prayers are conducted in Gerrard Hall, with the reading of the scriptures and singing, every weekday morning except Saturday, at 9:25 o'clock. Attendance at this service is required of all undergraduates, unless especially excused. Bible classes for young men are taught in each of the four churches of the village every Sunday. Religious services are held twice a week, or oftener, in each church. A series of sermons is delivered

annually by the University Preachers, chosen by the Trustees from the various denominations. Bible lectures are delivered every Sunday morning in Gerrard Hall. The Young Men's Christian Association meets three times a week, for prayer and other services, and conducts a series of Bible courses, which are numerously attended by the students.

Discipline. The University endeavors to make young men manly and self-reliant, and to develop character by educating the conscience. The Faculty may, at their discretion, admonish, suspend, or dismiss students for neglect of duty or for misconduct.

Medical Attendance. On the payment of an annual fee of $5.00, each student receives the careful attention of the University Physician. In this way the best medical advice is to be had at the least cost. The Infirmary, under the supervision of the University Physician and provided with a trained nurse, affords the conveniences and comforts necessary for the students in their sickness.

TRUSTEES

WILLIAM WALTON KITCHIN, GOVERNOR, President *ex-officio* of the Board of Trustees.

JAMES YADKIN JOYNER, SUPERINTENDENT OF PUBLIC INSTRUCTION, member *ex-officio* of the Board of Trustees.

RICHARD HENRY BATTLE, Secretary and Treasurer.

MEMBERS OF THE BOARD

1911*

JESS LINDSAY ARMFIELD,	Guilford.
J. OSCAR ATKINS,	Alamance.
VICTOR SILAS BRYANT,	Durham.
WILLIAM HYSLOP SUMNER BURGWYN,	Halifax.
PERRIN BUSBEE,	Wake.
WILLIAM PRESTON BYNUM, JR.,	Guilford.
JAMES OZBORN CARR,	New Hanover.
JOHN WASHINGTON GRAHAM,	Orange.
MARMADUKE JONES HAWKINS,	Warren.
FERNANDO GODFREY JAMES,	Pitt.
WALTER MURPHY,	Rowan.
ROBERT BURWELL REDWINE,	Union.
WILLIAM BLOUNT RODMAN,	Mecklenburg.
ZEB VANCE WALZER,	Davidson.
CHARLES WHEDBEE,	Perquimans.
WILLIAM THORNTON WHITSETT,	Guilford.
FRANCIS DONNELL WINSTON,	Bertie.
CHARLES WILLIAMS WORTH,	New Hanover.
EMMETT ROBERSON WOOTEN,	Lenoir.

*The legal term of office expires November 30 of the year indicated.

1913

Richard Gold Allsbrook,	Edgecombe,
Stephen Cambreleng Bragaw,	Beaufort.
William Edmond Breese,	Transylvania.
James Jefferson Britt,	Buncombe.
Walter Clark, Jr.,	Wake.
Frederick Jackson Coxe,	Anson.
*Benjamin Franklin Dixon,	Cleveland.
Claudius Dockery,	Wake.
Rufus Alexander Doughton,	Alleghany.
William Nash Everett,	Richmond.
Nelson McPherson Frebee,	Granville.
Robert Terelius Gray,	Wake.
Francis W. Handcock,	Granville.
John Sprunt Hill,	Durham.
John Allen Holt,	Guilford.
Whitehead Kluttz,	Rowan.
Larry I. Moore,	Pitt.
*Reuben David Reid,	Rockingham.
Alfred Moore Scales,	Guilford.
Frederick A. Woodard,	Wilson.

1915

Charles Brantley Aycock,	Wake.
Kemp Plummer Battle,	Orange.
Bennehan Cameron,	Durham.
Adolphus Hill Eller,	Forsyth.
John William Fries,	Forsyth.
William Anderson Guthrie,	Durham.
Edward Joseph Hale,	Cumberland.
Henry Augustus Gilliam,	Edgecombe.
Herbert Worth Jackson,	Wake.
*Thomas Stephen Kenan,	Wake.
John Lamb,	Martin.

*Deceased.

Richard Henry Lewis,	Wake.
Neil Archibald McLean,	Robeson.
Robert L. Madison,	Jackson.
Addison Goodloe Mangum,	Gaston.
*James Smith Manning,	Durham.
Jeter Connelly Pritchard,	Buncombe.
Charles Manly Stedman,	Guilford.
Thomas Davis Warren,	Craven.
Henry M. Weil,	Wayne.

1917

Alexander Boyd Andrews,	Wake.
David Collin Barnes,	Hertford.
John Alston Barringer,	Guilford.
Richard Henry Battle,	Wake.
Julian Shakespeare Carr,	Durham.
Josephus Daniels,	Wake.
Samuel Mallett Gattis,	Orange.
Augustus Washington Graham,	Granville.
John Bryant Grimes,	Pitt.
Alfred Williams Haywood,	Alamance.
John Wetmore Hinsdale, Jr.,	Wake.
Franklin P. Hobgood,	Granville.
William Stamps Howard,	Edgecombe.
Henry Armand London,	Chatham.
Paul Jones Long,	Northampton.
†Paul Barringer Means,	Cabarrus.
Lee Slater Overman,	Rowan.
George McNeill Rose,	Cumberland.
James Sprunt,	New Hanover.
George Stephens,	Mecklenburg.

COMMITTEES OF THE TRUSTEES

Executive Committee

Governor William Walton Kitchin, Chairman.

Alexander B. Andrews, Claudius Dockery,

*Resigned
†Deceased.

Charles B. Aycock,
Richard H. Battle,
William E. Breese,
James Ozborn Carr,
Julian S. Carr,
Josephus Daniels,
John W. Graham,
Robert T. Gray,
J. Bryan Grimes,
Edward J. Hale,
Thomas T. Kenan,
Richard H. Lewis,
Charles Whedbee.

Visiting Committee

Victor S. Bryant, Chairman,

D. C. Barnes,
E. R. Wooten.

FACULTY

Officers of Administration

FRANCIS PRESTON VENABLE, Ph.D., D.Sc., LL. D., President.

EDWARD KIDDER GRAHAM, A. M., Dean of the College of Liberal Arts.

CHARLES HOLMES HERTY, Ph.D., Dean of the School of Applied Science.

CHARLES LEE RAPER, Ph.D., Dean of the Graduate School.

LUCIUS POLK MCGEHEE, A. B., Dean of the School of Law.

ISAAC HALL MANNING, M. D., Dean of the School of Medicine.

EDWARD VERNON HOWELL, A. B., Ph.G., Dean of the School of Pharmacy.

Officers of Instruction

KEMP PLUMMER BATTLE, LL.D., Professor Emeritus of History.

THOMAS HUME, D. D., LL. D., Professor Emeritus of English Literature.

*WALTER DALLAM TOY, M. A., Professor of the Germanic Languages and Literatures.

WILLIAM CAIN, C. E., Professor of Mathematics.

HENRY HORACE WILLIAMS, A. M., B.D., Professor of Philosophy.

HENRY VANPETERS WILSON, Ph.D., Professor of Zoology.

COLLIER COBB, A. M., Professor of Geology and Mineralogy.

CHARLES STAPLES MANGUM, A. B., M. D., Professor of Anatomy.

EDWARD VERNON HOWELL, A. B., Ph.G., Professor of Pharmacy.

MARCUS CICERO STEPHENS NOBLE, Professor of Pedagogy.

ISAAC HALL MANNING, M. D., Professor of Physiology.

GEORGE HOWE, Ph.D., Professor of the Latin Language and Literature.

JOSEPH HYDE PRATT, Ph.D., Professor of Economic Geology.

CHARLES HOLMES HERTY, Ph.D., Smith Professor of General and

*Absent on leave, 1910-1911.

Industrial Chemistry

NATHAN WILSON WALKER, A. B., Professor of Secondary Education.

WILLIAM DEBERNIERE MACNIDER, M. D., Professor of Pharmacology and Bacteriology.

CHARLES LEE RAPER, Ph.D., Professor of Economics.

*——— ——— ———, Professor of Histology and Pathology.

EDWARD KIDDER GRAHAM, A. M., Professor of English.

WILLIAM CHAMBERS COKER, Ph.D., Professor of Botany.

†ARCHIBALD HENDERSON, Ph.D., Professor of Pure Mathematics.

JOSEPH GREGOIRE DEROULHAC HAMILTON, Ph.D., Alumni Professor of History.

ANDREW HENRY PATTERSON, A. M., Professor of Physics.

HENRY MCGILBERT WAGSTAFF, Ph.D.. Professor of History.

EDWIN MIMS, Ph.D., Professor of English.

PATRICK HENRY WINSTON, A. B., Professor of Law.

WILLIAM MORTON DEY, Ph.D., Professor of the Romance Languages and Literatures.

MARVIN HENDRIX STACY, A. M., Professor of Civil Engineering.

JAMES FINCH ROYSTER, Ph.D., Professor of English.

LUCIUS POLK MCGEHEE, A. B., Professor of Law.

CHARLES WESLEY BAIN, A. M., Professor of Greek.

ATWELL CAMPBELL MCINTOSH, Professor of Law.

HARRY WOODBURN CHASE, Ph.D., Professor of the Philosophy of Education.

GEORGE BURRIDGE VILES, Ph.D., Professsor of Germanic Languages and Literatures.

GUY ROGER CLEMENTS, A. M., Professor of Pure Mathematics.

†ALVIN SAWYER WHEELER, Ph.D., Associate Professor of Organic Chemistry.

THOMAS JAMES WILSON, JR., Ph.D., Associate Professor of Latin.

WILLIAM STANLEY BERNARD, A. M., Associate Professor of Greek.

*To be elected.

†Absent on leave, 1910-1911.

Louis Round Wilson, Ph.D., Associate Professor of Library Administration.

Robert Baker Lawson, M. D., Associate Professor of Anatomy.

Palmer Cobb, Ph.D., Associate Professor of German.

George McFarland McKie, A. M., Associate Professor of Public Speaking.

George Weston Mitchell, Associate Professor of Drawing.

John Manning Booker, A. B., Associate Professor of English.

Oliver Towles, A. B., Associate Professor of the Romance Languages.

Thomas Felix Hickerson, A. M., Associate Professor of Civil Engineering.

Parker Haywood Daggett, S. B., Associate Professor of Electrical Engineering.

Robert Anderson Hall, Ph.D., Associate Professor of Organic Chemistry.

James Munsie Bell, Ph.D., Associate Professor of Physical Chemistry.

George Kenneth Grant Henry, A. M., Instructor in Latin.

John Grover Beard, Ph.G., Instructor in Pharmacy.

Jonas MacAulay Costner, A. B., Instructor in Mathematics.

Hampden Hill, S. B., Instructor in Chemistry.

Vivian LeRoy Chrisler, A. M., Instructor in Physics.

Theophilus Randolph Eagles, Jr., A. B., Instructor in Mathematics.

William Henry Fry, A. B., Instructor in Geology.

George Mark Sneath, A. M., Instructor in English.

John Nottingham Ware, A. M., Instructor in French.

Charles Scott Venable, A. B., Fellow in Chemistry.

John Wayne Lasley, Jr., A. B., Fellow in Mathematics.

George Alexander Wheeler, Assistant in Anatomy.

Wortham Wyatt, A. B., Assistant in Bacteriology.

* Dead

John Archibald McKay, Assistant in Botany.
Robert Lee Hunter, Assistant in Chemistry.
William Lewis Jeffries, A. B., Assistant in Chemistry.
Thomas Palmer Nash, Jr., A. B., Assistant in Chemistry.
William Augustus Rudisill, A. B., Assistant in Chemistry.
Charles Alexander Vogler, Assistant in Geology.
Cyrus Dunlap Hogue, A. B., Assistant in German.
David Bryan Sloan, A. B., Assistant in Histology.
James Ambler Speight, Assistant in Histology.
Charles Eugene McIntosh, Assistant in History.
Edgar Willis Turlington, Assistant in Latin.
Robert Willis Bobbitt, Assistant in the Library.
Foster Nugent Cox, Assistant in the Library.
Clarence Walton Johnson, Assistant in the Library.
Columbus Washington Eagles Pittman, Assistant in the Library.
Walter Darsey Barbee, Assistant in the Library.
James Talmage Dobbins, Assistant in Physics.
Alexander Littlejohn Feild, Assistant in Physics.
Gordon Wesley Thompson, Assistant in Physics.
Orren Williams Hyman, A. B., Assistant in Zoology.
Lee Franklin Turlington, Assistant in Zoology.

Other Officers

Thomas James Wilson, Jr., Ph.D., Secretary of the Faculty.
Louis Round Wilson, Ph.D., Librarian.
Frances Randolph Archer, Assistant Librarian.
Robert Baker Lawson, M. D., Director of the Gymnasium.
James Richard Allison, Assistant in the Gymnasium.
Albert Edgar Woltz, A. M., Bursar.
Charles Thomas Woollen, Proctor.
Thomas James Wilson, Jr., Ph.D., Registrar.

MARVIN HENDRIX STACY, A.M., Recorder of Absences

EDWARD P. HALL, General Secretary of the Young Men's Christian Association.

Standing Committees of the Faculty

The President is a member *ex officio* of all committees.

EXECUTIVE. President Venable; Professors Herty, Graham, Patterson.

AUDITING. Professors Cain, Patterson.

ATHLETICS. Professors Royster, Herty, Mangum, Howe, Patterson.

CATALOGUE. Professors Howe, T. J. Wilson, Wagstaff.

COMMONS. Professors Stacy, McKie.

LIBRARY. Professors Raper, Coker, Mims, Dey.

RECORD. Professors Royster, Hamilton, L. R. Wilson.

UNIVERSITY MAGAZINE. Professors C. Cobb, Hamilton, Bain.

PUBLIC LECTURES. Professors Herty, P. Cobb, Bain, McGehee, MacNider.

DEBATES. Professors Williams, Raper, Graham.

SELF HELP. Professors Stacy, Hickerson.

UNIVERSITY PRESS ASSOCIATION. Professor Graham.

UNIVERSITY SERMONS. Professors Mims, Raper, Patterson.

UNIVERSITY PRESS. Professor C. Cobb.

ALUMNI ORGANIZATIONS. Professors Bernard, T. J. Wilson, P. Cobb, Patterson.

GRADUATE SCHOOL. President Venable; Professors Raper, Graham, Howe.

ENTRANCE CERTIFICATES. Professors Walker, Hamilton, Royster, Hickerson.

UNIVERSITY BULLETIN. Professors Stacy, McKie.

SCHEDULES. Professors T. J. Wilson, Stacy.

LIBRARY APPROPRIATIONS. President Venable; Professors Raper, Graham.

McNair Lectures. President Venable; Professors Graham, Herty, Coker.

Absences. Professors Patterson, Stacy.

Advanced Standing. President Venable; Professors Howe, T. J. Wilson.

PART TWO

THE COLLEGE OF LIBERAL ARTS
THE SCHOOL OF APPLIED SCIENCE
THE GRADUATE SCHOOL

THE COLLEGE OF LIBERAL ARTS

There are three courses of instruction outlined in The College of Liberal Arts. The object of these courses is to provide a general, well-rounded, liberal education. The first two years of each allow but little election of studies. Beginning with the Junior year the election is wider, and a student can devote himself, to a large extent, to such special lines of study as he may prefer, although there are certain general restrictions designed to guard against too narrow a specialization. The first course, requiring both Greek and Latin, corresponds to the old classical course. The second course is a combination of ancient and modern languages and science. The third course is largely scientific. All of these courses lead to the one degree of Bachelor of Arts, and they are so balanced as to make the work equally difficult and worthy.

ADMISSION

Admission into the Freshman Class

Candidates for admission into the Freshman Class are received by examination or by certificates from accredited schools.

Entrance examinations are held in September. Arrangements have been made with certain schools in the State whereby examinations for admission may be held in May, also, at the schools. The University will accept the uniform entrance examination papers of the Association of Colleges and Preparatory Schools of the Southern States, provided such papers are properly vouched for and sent sealed to the University for grading. Candidates for admission by examination must report at 9 A. M., *Monday, September 11, 1911*, to the Registrar, who will appoint time and place for examination.

Students who present certificates of work accomplished at preparatory schools and colleges may be admitted without examination, provided the certificates are approved. The right to exam-

ine, however, is reserved, when such a course is deemed necessary. Certificates must be made out on the printed forms furnished on application to the Registrar, and should be sent in as early as possible in the summer vacation. They must be submitted for approval to the Committee on Entrance Certificates in No. 10 Alumni Building during the period of registration (*September 11, 12, 13, 1911.*)

Subjects Accepted for Entrance

The complete list of subjects accepted for entrance is as follows:

*English *a, b,*	3. units
History *a, b, c,*	3. units
Mathematics *a, b, c, d,*	3.5 units
Greek *a, b, c,*	3. units
Latin *a, b, c, d, e,*	4.7 units
French *a, b,*	3 units
German *a, b,*	3. units
Spanish	2. units
Botany	1. unit
Chemistry	1. unit
Physics	1. unit
Zoology	1. unit
Drawing	1. unit
Civics	.5 unit
Physiography	.5 unit
Physiology	.5 unit

It will be noticed that each subject has a valuation by units. A unit means a definite amount of a subject satisfactorily completed in a reasonable length of time. For example, one unit in History means the satisfactory completion of a standard text book in English or United States History in a period of study continuing through an entire High School session; one-half unit in Solid Geometry means the completion of the four books of Solid Geometry in about one-half a session; the fourteen units mentioned below correspond to the four years of work in a good High School.

Unconditioned entrance to the undergraduate departments of the University requires a total of 14 units selected from the list above.

*For specific requirements in each of the subjects in this list, see pp 28-31.

A candidate, however, who desires to pursue any one of the regular courses leading to a Bachelor's degree must make his selection from the list of accepted subjects accord with the course to be pursued after entrance. Thus, the undergraduate course requiring Greek, Latin, Mathematics, and English necessitates the selection on the part of the candidate of a specified number of units in each of these branches (see below). The same is true, also, of entrance to all other courses. It is possible, therefore, that a candidate who offers a total of 14 units may nevertheless be conditioned on one or more branches, if he has failed to prepare himself adequately for the particular course which he desires to pursue after entrance.

The following tables indicate the requirements for entrance to each of the three courses leading to the degree of Bachelor of Arts (see page 33):

For entrance to group 1:

English *a* and *b*	3. units
History *a* or *b*	2. units
Mathematics *a*, *b*, and *c*	3. units
Greek *a* and *b*	2. units
Latin *a*, *b*, *c*, and *d*	3.7 units
Elective	.3 unit

For entrance to group 2:

English *a* and *b*	3. units
History *a* or *b*	2. units
Mathematics *a*, *b*, and *c*	3. units
Latin *a*, *b*, *c*, and *d*	3.7 units
French *a* or German *a*	2. units
Elective	.3 unit

For entrance to group 3:

English *a* and *b*	3. units
History *a* or *b*	2. units
Mathematics *a*, *b*, and *c*	3. units
French *a*	2. units
German *a*	2. units
Science	1. unit
Elective	1. unit

At the discretion of the Committee on Entrance Certificates candidates may be admitted with conditions, provided the total number of units offered does not fall below the minimum of 12 units, and provided the conditions are of such nature that, in the judgment of the Committee, they may be removed according to the regulations given in the next paragraph. The Committee has the discretionary power to admit certain candidates whose credits fall below 12 units, if, in the opinion of the Committee, the maturity of the candidate or his special object in view justifies such action. Candidates thus admitted will be classed as special students.

Entrance conditions in any subject except French, German, Greek, or Physics must be made up by September of the following year. A student who fails to comply with this regulation will not be allowed to register for any course in his Sophomore year. The exception of French, German, Greek, and Physics is made because few schools of the State are yet able to offer complete preparation in these branches. For this reason these courses are taught in the University, and an entering student is allowed two years in which to complete them.

The requirements in each of the subjects accepted for entrance are as follows:

English: (*a*) Reading and Practice..... 1.5 units

A. Two books from the following: 1. Shakespere's As You Like It, 2. Henry V, 3. Julius Caesar, 4. The Merchant of Venice, 5. Twelfth Night.

B. One book from the following: 1. Bacon's Essays; 2. Bunyan's The Pilgrim's Progress, Part I; 3. The Sir Roger de Coverley Papers in the Spectator; 4. Franklin's Autobiography.

C. One book from the following: 1. Chaucer's Prologue; 2. Selections from Spencer's Faerie Queene; 3. Pope's The Rape of the Lock; 4. Goldsmith's The Deserted Village; 5. Palgrave's Golden Treasury (First Series), Books I and II (special attention to Dryden, Collins, Gray, Cowper, and Burns).

D. Two books from the following: 1. Goldsmith's The Vicar of Wakefield; 2. Scott's Ivanhoe, 3. Quentin Durward; 4. Hawthorne's The House of Seven Gables; 5. Thackeray's Henry Esmond; 6. Mrs. Gaskell's Cranford; 7. Dickens's A Tale of Two Cities; 8. George Eliot's Silas Marner; 9. Blackmore's Lorna Doone.

E. Two books from the following: 1. Irving's Sketch Book; 2. Lamb's Essays of Elia; 3. De Quincey's Joan of Arc and the English Mail-Coach; 4. Carlyle's Heroes and Hero Worship. 5. Emerson's Essays (selected); 6. Ruskin's Sesame and Lilies.

F. Two books from the following: 1. Coleridge's The Ancient Mariner; 2. Scott's The Lady of the Lake; 3. Byron's Mazeppa and the Prisoner of Chillon; 4. Palgrave's Golden Treasury (First Series), Book IV (special attention to Wordsworth, Keats, and Shelley); 5. Macaulay's Lays of Ancient Rome; 6. Poe's Poems; 7. Lowell's The Vision of Sir Launfal; 8. Arnold's Sohrab and Rustum; 9. Longfellow's The Courtship of Miles Standish; 10. Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur 11. Browning's Poems (selections).

The candidate is expected to have sufficient knowledge of these books to enable him to answer general questions on their substance. The form of the examination will be the composition of paragraphs on a number of topics connected with the works. The ability of the candidate to express his ideas in clear, accurate English is a main consideration. No applicant should present himself who is notably deficient in spelling, grammar, or paragraphing.

(*b*) Study and Practice..... ..... 1.5 units

Shakespere's Macbeth; Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Burke's Speech on Conciliation with America, or Washington's Farewell Address and Webster's First Bunker Hill Oration; Macaulay's The Life of Johnson, or Carlyle's Essay on Burns.

The questions on these books will be on subject matter and structure.

History: (*a*) The histories of the United States, Greece, and Rome, as outlined in the best text books for high schools ..... 2. units

(*b*) The histories of the United States and England as outlined in the best text books for high schools.. 2. units

(*c*) Mediaeval History..... 1. unit

Mathematics: (*a*) Algebra ..... 1.5 units

The whole of a high school algebra including quadratic equations, binomial theorem, and progressions.

(*b*) The whole of Plane Geometry..... 1. unit

(*c*) The whole of Solid Geometry..... .5 unit

(*d*) Trigonometry..... .... .5 unit

Plane trigonometry and spherical trigonometry through right triangles.

Greek: (*a*) Grammar and Composition..... 1. unit

Acquaintance with the more usual forms and constructions; simple narrative in English, based upon Xenophon's Anabasis, to be translated into Greek.

(*b*) Xenophon..... 1. unit

The first four books of the Anabasis.

(*c*) Homer..... ..... 1. unit

The first three books of the Iliad (omitting II., 494—end), with study of Homeric forms, constructions, and prosody.

Latin: (*a*) Grammar and Composition..... 1. unit

Forms, syntax, and prosody; simple narrative in English, based upon the prose read, to be translated into Latin.

(*b*) Caesar..... ..... 1. unit

The first four books of the Gallic War.

(*c*) Cicero .... .7 unit

The four orations against Catiline.

(*d*) Vergil..... ..... 1. unit

The first six books of the Aeneid, study of hexameter verse.

(*e*) Cornelius Nepos..... 1. unit

The first fifteen lives.

French: (*a*) Elementary..... 2. units

The forms and uses of the various parts of speech, including irregular verbs; translation of 250 or more pages of easy prose into idiomatic English; translation of simple English sentences into French; pronunciation.

(*b*) Intermediate.. ..... 1. unit

Translation of 400 or more pages of French of ordinary difficulty.

German: (*a*) Elementary..... 2. units

Inflection, including the most common strong verbs; the ordinary laws of German syntax; translation of 200 or more pages of easy German into idiomatic English; trans-

lation of simple English sentences, based upon passages read, into German.

(*b*) Intermediate ..... 1. unit

Translation of 400 or more pages of German of ordinary difficulty.

Spanish: Elementary ..... 2. units

Inflections, including the most common irregular verbs; ordinary laws of syntax; translation of 250 pages or more of easy Spanish into idiomatic English; translation of simple English sentences, based upon the passages read, into Spanish.

Botany: ..... 1. unit

A course such as is contained in any standard text book; laboratory work.

Chemistry: ..... 1. unit

A course such as is contained in any standard text book; laboratory work.

Physics: ..... 1. unit

A course such as is contained in Millikan and Gale's Physics or Carhart and Chute's High School Physics; laboratory work such as is outlined in Millikan and Gale's Physics.

Physiography: ..... .5 unit

A course such as is contained in any standard text book.

Physiology: ..... .5 unit

A course such as is contained in any standard text book.

Zoology: ..... 1. unit

A year's course such as is contained in any standard text book.

Civics: ..... .5 unit

A course such as is contained in any standard text book.

Drawing: ..... 1. unit

A year's work, including simple geometrical plane and solid figures, simple pieces of machinery; elementary rules of perspective, light, and shade, as applied in freehand sketching.

Admission to Advanced Standing

A candidate for advanced standing may be admitted to the Sophomore, Junior, or Senior Class, with or without complete examination. He is subject not only to the examinations required of candidates for admission into the Frenchman Class, but to special examinations both in all the required studies already pursued by the class which he desires to enter, and in as many electives studies as would have been required of him as a member of that class. When satisfied with the apparent fitness of the candidate, the examining committee may, in spite of his deficiencies in some studies, admit him to an advanced class; but a candidate so admitted is not recommended for the degree until the deficiencies are made good. The examining committee may accept, also, with proper restrictions, the official report of work satisfactorily completed at a college or university of good standing in place of an examination upon such previous work.

A candidate for advanced standing should present himself for examination on the same days and at the same hours as candidates for admission in the Freshman Class.

THE COLLEGE OF LIBERAL ARTS

Courses Leading to the Degree of Bachelor of Arts

In order to be recommended for the degree of Bachelor of Arts, the student must have passed satisfactory examinations in all the studies required in one of the groups prescribed for the Freshman and Sophomore years, and in a number of elective studies during the Junior and Senior years sufficient to amount to an average of fifteen hours of lectures or recitations a week for each of these years.

The group of studies selected for the Freshman and Sophomore years must correspond to the group of subjects offered for entrance.

Freshman Year

Group 1.	Group 2.	Group 3.
English 1 (3)*	English 2 (3)	English 1 (3)
Mathematics 1 (4)	Mathematics 1 (4)	Mathematics 1 (4)
Greek 1 (4)	Select one: Greek 1 (4) / Latin 1 (4)	German 1 (3)
Latin 1 (4)	Select one: German 1 (3) / French 1 (3)	French 1 (3)
Public Speaking 1 (1)	History 1 (3)	History 1 (3)
		Public Spkg 1 (1)

Sophomore Year

Group 1.	Group 2.	Group 3.
English 2 (3)	English 2 (3)	English 2 (3)
Select one: Greek 2 (3) / Latin 2 (3)	Select two: Greek 2 (3) / Latin 2 (3) / German 1 (3) / French 1 (3) / German 2 (3) / French 2 (3)	Math. 2 (3)
Select one: Greek 2 (3) / Latin 2 (3) / German 1 (3) / French 1 (3)	Select one: Math. 2 (3) / Physics 1 (3)	Chem. 1 (3)
Select one: Math. 2 (3) / Chem. 1 (3) / Physics 1 (3)	Elective (3)	Physics 1 (3)
Elective (3)		Elective (3)

*Numerals in parentheses indicate the number of hours a week in each study.

SOPHOMORE ELECTIVES: Greek 2 (3), Latin 2 (3), German 1 (3), French 1 (3), History 3 (3), History 8 (3), Botany 1 (3), Chemistry 1 (3), Geology 1 (3), Mathematics 2 (3), Physics 1 (3), Zoology 1 (3).

The selection made must in each case be submitted to Professor Howe for approval.

Junior Year

ELECTIVE STUDIES amounting to fifteen hours a week, of which at least one study must be taken from each of the following groups, A, B, and C:

A

English 3 (3), 4 (3), 5 (3), 6 (3), 8 (2), 9 (2), 10A (1 1-2), 10B (1 1-2), 14 (3) 16 (2).
Public Speaking 2 (2), 3 (2).
Greek 2 (3), 4 (2), 5 (1), 6 (2), 7 (3), 9 (1), 10 (1-2), 14A (1), 14B (1), 15 (2), 16 (1), 18 (2).
Latin 2 (3), 4 (2), 5 (2), 6 (2), 7 (1), 7A (1), 8 (1), 9 (2), 10 (2), 13 (2), 15 (2), 16 (1).
German 2A (3), 2B (3), 3 (3), 4 (3), 5 (3), 6 (3), 7 (3).
French 2 (3). 3 (3), 4A (3), 4B (3), 5 (3).
Spanish 1 (3), 2 (3), 3 (2).
Italian 1 (3).

B

History 2 (2), 3 (3), 4 (2), 6 (1), 7 (3), 8 (3), 9 (2), 11 (1), 12A (1), 12B (1)
Philosophy 1 (3), 2 (2), 3 (2), 4 (3).
Economics 1 (3), 4 (3), 5 (2).
Education 1 and 2 (3), 3 (1 1-2), 4 (1 1-2), 5 (1), 6 (1), 7 (1 1-2), 8 (1 1-2), 9 (3).

C

Mathematics 2 (3), 3 (3), 3A (3), 3B (2), 4 (3), 5 (3), 11A (1), 14 (2).
Physics 1 (3), 2 (2), 4 (2), 5 (2), 6 (2), 10 (3), 12A (1), 15 (2).
Chemistry 1 (3), 2 (3), 3 (2), 4 (3), 5 (3), 7 (3), 16 (1 1-2).
Zoology 1 (3), 2 (3), 3 (3).
Botany 1 (3), 2 (3), 3 (3).
Geology 1 (3), 2 (3), 3 (3), 4 (3), 5 (3), 8 (2), 13 (1 1-2).

The selection made must in each case be submitted to Professor Patterson for approval.

Senior Year

ELECTIVE STUDIES amounting to fifteen hours a week, subject to the condition stated above for the Junior Year. In addition to the courses named for Junior Year the following courses are also open to Seniors:

A.

English 7 (2), 11 (2), 12 (2).
Greek 17 (1).
Latin 14 (1).

B.

History 10 (2).
Economics 2 (2), 3 (2).
Education 10 (1), 11 (1).
Law (3).

C.

Mathematics 6 (3), 7 (3), 7A (3), 8 (3), 10 (4), 11B (1), 13 (2), 16 (2).
Physics 11 (4), 12B (1), 13B (1), 14 (3).
Chemistry 5A (2), 6 (1), 7A (2), 7B (2), 8 (5), 17 (3).
Geology 6 (3), 7 (3).
Anatomy 1 (3).
Physiology 1 (1 1-2).

The selection made must in each case be submitted to the Dean of the College of Liberal Arts for approval.

SPECIAL COURSES

Elective studies may be selected by students who are unable to complete a course leading to the degree. Students intending to pursue these elective studies must prove their qualifications according to the regulations on page 26. After satisfying these entrance requirements, they may elect such studies as they are qualified to pursue.

Special Course for Students Intending to Teach

First Year: English 1 (3), Mathematics 1 (4), History 1 (3), Education 1 and 2 (3); one study from the following group: Latin 1 (4), Greek A (4), Greek 1 (4), French A (3) French 1 (3), German A (3), German 1 (3).

Second Year: English 2 (3), Physics A (3) or Chemistry 1 (3), Education 3 and 4 (3), Education 5 and 6 (2); electives amounting to a total of six hours from the following group: German, French, Greek, Latin, Mathematics, Geology, Physiology, History.

A certificate will be granted upon the completion of this course.

Special Course Preparatory to Medicine

English 1 (3), German 1 (3), Zoology 1 (3), Physics A (3), Chemistry 1 (3), Chemistry 3 (2).

The prerequisites for this course are the requirements of the ordinary high school course which would admit a student regularly to the University. (See page 26).

COURSES OF INSTRUCTION

DEPARTMENT OF BOTANY

WILLIAM CHAMBERS COKER, Ph.D., *Professor of Botany.*

JOHN ARCHIBALD MCKAY, *Assistant in Botany.*

Professor COKER and Mr. MCKAY.

1. General Botany: an introduction to the structure and classification of plants; lectures with laboratory work. Sophomore, Junior and Senior elective. *Both terms, three hours.*

2. Physiology: a general course in plant physiology; lectures with laboratory and field experiments. Junior and Senior elective. *Both terms, three hours.*

3. Special Morphology of the Algae and Fungi, with attention to the culture of lower fungi, and the identification of mushrooms; lectures with laboratory and field work. Junior and Senior elective. *Both terms, three hours.*

DEPARTMENT OF CHEMISTRY

CHARLES HOLMES HERTY, Ph.D., *Smith Professor of General and Industrial Chemistry.*

FRANCIS PRESTON VENABLE, Ph.D., D.Sc., LL.D., *Lecturer on the History of Chemistry.*

*ALVIN SAWYER WHEELER, Ph.D., *Associate Professor of Organic Chemistry.*

ROBERT ANDERSON HALL, Ph.D., *Associate Professor of Organic Chemistry.*

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*Absent on leave, 1910-1911.

James Munsie Bell, Ph.D., *Associate Professor of Physical Chemistry.*

Hampden Hill, S.B., *Instructor in Chemistry.*

Charles Scott Venable, A.B., *Fellow in Chemistry.*

Robert Lee Hunter, *Assistant in Chemistry.*

William Lewis Jeffries, A.B., *Assistant in Chemistry.*

Thomas Palmer Nash, Jr., A.B., *Assistant in Chemistry.*

William Augustus Rudisill, A.B., *Assistant in Chemistry.*

Professor Herty and Mr. Hill.

1. General Descriptive Chemistry. A study of the elements and their compounds, including an introduction to Organic Chemistry; lectures with laboratory work. Required of Sophomores in Group 3, elective in Groups 1 and 2. *Both terms, three hours.*
   Laboratory fee, $1.25 a term.

Professor Herty.

2. Technical Chemistry. (*a*) Industrial and Agricultural Chemistry: glass-making, acids, alkalies, phosphates, fertilizers, foods, clothing, hygiene, etc (*b*) Metallurgy: mining, treatment of ores, smelting, chlorination, fuel, building materials, etc. Junior and Senior elective; prerequisite, Chemistry 1. *Both terms, three hours.*

Associate Professor Hall and Messrs. Nash and Hunter.

3. Qualitative Analysis: laboratory work with lectures. May be taken with Chemistry 1. Junior and Senior elective. *Both terms, two hours.*
   Laboratory fee, $5.00 a term.

Associate Professor Bell.

4. Quantitative Analysis and Assaying; laboratory work, lectures, and stoichiometric exercises; a grounding in analytical methods. Junior and Senior elective; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*
   Laboratory fee, $5.00 a term.

Associate Professor HALL.

5. Organic Chemistry. Junior and Senior elective; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*
Laboratory fee, $4,00 a term.

5A. Organic Chemistry; special preparations. Senior elective. *Both terms, laboratory, two hours.*
Laboratory fee, $6.00 a term.

President VENABLE.

6. The History of Chemistry. Senior elective; prerequisite, Chemistry 1, 3, 4, 5. *Spring term, two hours.*

Associate Professor BELL.

7. Elementary Physical Chemistry. Junior and Senior elective; prerequisite, Chemistry 1, 3, and 4. *Both terms, three hours.*
Laboratory fee, $2.00 a term.

7A. Physical Chemistry; lectures and text-books, with laboratory work. Senior elective; prerequisite, Chemistry 7. *Both terms, two hours.*

7B. Electro-Chemistry: theory and application of electricity to chemical processes. Senior elective; prerequisite, Chemistry 1, 3, and 4. *Both terms, two hours.*

Professor HERTY.

8. Quantitative Analysis; laboratory work; gas analysis and extension of course 4 in technical lines; bacteriological examination of water (with Professor MacNider); research. Senior elective; prerequisite, Chemistry 1, 3, and 4. *Both terms, five hours.*
Laboratory fee, $10.00 a term.

16. Inorganic Chemistry. A detailed study of the reactions of the elements and their compounds. Lectures and text-book. Junior and Senior elective; prerequisite, Chemistry 1, 3, and 4. *Spring term, three hours.*

17. Quantitative Analysis. Laboratory work. Extension of course 4 in technical lines. Senior elective; prerequisite,

Chemistry 1, 3, and 4. *Both terms, three hours.*
Laboratory fee, $5.00 a term.

The Journal Club meets fortnightly. The current journals, American, English, German, and French, both the purely scientific and the technical, are reviewed by the students and instructors. Attandance is expected of students in all courses except 1 and 3.

For courses 4A and 10, see School of Medicine and School of Pharmacy.

For courses 11, 12, 13, 14, and 15, see Graduate School.

DEPARTMENT OF ECONOMICS AND FINANCE

CHARLES LEE RAPER, Ph.D., *Professor of Economics.*

1. General Economics: A general study of the principles which are involved in the production, distribution, and consumption of wealth, and the relation of wealth to welfare; a special study of labor, land, capital, business management, and the state, as factors in the production and distribution of wealth. Raper's *Principles of Wealth and Welfare*, and Seligman's *Principles of Economics*. Junior and Senior elective. *Both terms, three hours.*

2. Public Finance: a general study of the principles which are involved in the revenues and expenditures of the state, and of the relation of the state to the industries of its citizens; a special study of taxation and the tariff. Lectures, readings, and reports. Adam's *The Science of Finance*. Senior elective. *Both terms, two hours.*
Given in alternate years; to be obmitted in 1911-1912.

3. Economic Institutions and Thought in England and the United States: a general study, largely from the historical point of view, of the economic institutions and the systems of economic thought in England and the United States; a special study of socialism. Lectures, readings, and reports. Cheyney's *Industrial and Social History of England*, Brooks's *The Social Unrest*, Spargo's *Socialism*, and the *Communist Manifesto* (Marx and Engels). Senior elective. *Both terms, two hours.*

4. Money, Banking, and Insurance. (*a*) A general study of the principles, functions, and forms of money and banking; a special study of current monetary problems. Lectures, readings, and reports. Kinley's *Money*, Dunbar's *Theory and History of Banking*, (2nd Ed), and Jones's *Economic Crises*. (*b*) A general study of the principles and methods of insurance; a special study of the regulation of insurance by the State. Lectures and readings. Junior and Senior elective. *Both terms, three hours.*

5. Transportation and Labor: (*a*) A general study of the principles and forms of the modern system of transportation; a special study of the American railway system and its position in American life; a special study of the relation of the State to railway management. Lectures, readings, and reports. Johnson's *American Railway Transportation*. (*b*) Labor as an agent in the production of wealth; wages; some wage problems, as, for instance, woman and child labor, immigration, sweating system, and poverty; some of the solutions of these problems, as, for instance, strikes, boycotts, trades unions, conciliation and arbitration, profit-sharing, co-operation, industrial education and the factory acts; the relation of the State to wage problems. Adams and Sumner's *Labor Problems*. Junior and Senior elective. *Both terms, two hours.*

Given in alternate years; to be given in 1911-1912.

A certificate is granted to a student who has completed, with credit, courses 1-5.

DEPARTMENT OF EDUCATION

Marcus Cicero Stephens Noble, *Professor of Pedagogy.*

Nathan Wilson Walker, A. B., *Professor of Secondary Education.*

Harry Woodburn Chase, Ph.D., *Professor of the Philosophy of Education.*

Louis Round Wilson, Ph.D., *Associate Professor of Library Administration.*

Professor Noble.

1. The Science of Teaching; the practical application of scientific principles to the teaching of elementary branches; a brief study of modern educational theories; preparation of model lessons according to pedagogical principles; lectures, text-books, and theses. Junior and Senior elective, open only to those who intend to teach (not counted for a degree unless Pedagogy 2 is also taken.) *Fall term, three hours.*

2. The Art of Teaching: a careful study of the principles and methods involved in successfully teaching those studies usually taught in the best public and private elementary schools; lectures, text-books, and theses. Junior and Senior elective, open only to those who intend to teach; prerequisite, Pedagogy 1. *Spring term, three hours.*

3. Science and Practice of Education: a study of modern education from the view-point of both teacher and citizen; the development and arrangement of a High School course of study; lectures, text-books, parallel readings, theses. Junior and Senior elective. *Spring term, three hours.*

4. The General History of Education: the development of educational ideals in the past; the effect of the pedagogical doctrines of the great educators of the past upon modern educational systems; lectures, text-book, parallel readings, criticisms, theses. Junior and Senior elective. *Spring term, three hours.*

Professor Walker.

5. High School Organization. A study of the organization of the American high school with special attention to its curricula and methods. Text-books, lectures, and assigned readings. Brown's *The American High School* and DeGarmo's *Principles of Secondary Education*. Open to teachers. *Fall term, two hours.*

6. High School Administration. A study of the principles and problems of American high school administration. Text-books, lectures, and assigned readings. Hollister's *High*

School Administration. Open to teachers; prerequisite, Education 5. *Spring term, two hours.*

Professor CHASE.

7. Educational Psychology. The application of modern psychological theory and discovery to education. Lectures, readings, text. Junior and Senior elective. *Fall term, three hours.*

8. Experimental Pedagogy. A more detailed study of the experimental work which is contributing to the solution of educational problems. Lectures, readings. Junior and Senior elective; prerequisite, Education 7. *Spring term, three hours.*

9. Educational Classics. A study at first hand of the works of typical great educators, with attention to the social and historical background. Junior and Senior elective. Readings, lectures. *Both terms, three hours.*

10. Child Study. The development of the child from birth to adolescence and the significance of child study for education. Lectures, readings, text. Senior elective; prerequisite, Education 1 and 2, or 3, or 7, or an equivalent. *Fall term, two hours.*

11. Adolescence. A continuation of the preceding course, dealing with the adolescent changes and their significance. Lectures and text. Senior elective; prerequisite, Education 10. *Spring term, two hours.*

A certificate is granted to a student who has completed with credit courses 1 to 4 inclusive, together with either courses 5 and 6 or courses 10 and 11.

Library Administration

Associate Professor WILSON.

1. Library Administration: a study of library administration, bibliography, book selection, reading courses, debate references, indexing, and technical library methods; practice in the University library. This course is open to Library Fellows and Assistants; upon the approval of the Execu-

tive Committee, it may also be counted for the degree by students preparing for library positions. *Both terms, two hours.*

DEPARTMENT OF ENGLISH

THOMAS HUME, D.D., LL.D., *Professor Emeritus of English Literature.*

EDWARD KIDDER GRAHAM, A.M., *Professor of English.*

EDWIN MIMS, Ph.D., *Professor of English.*

JAMES FINCH ROYSTER, Ph.D., *Professor of English.*

GEORGE MCFARLAND MCKIE, A.M., *Associate Professor of Public Speaking.*

JOHN MANNING BOOKER, A.B., *Associate Professor of English.*

GEORGE MARK SNEATH, A.M., *Instructor in English.*

Professor MIMS, Associate Professor BOOKER and Mr. SNEATH.

1. Types of Literature: the short story, the novel, the essay; the lyric, the epic, the ballad, and the drama. Practical rhetoric and theme writing during the second term. This course lays the foundation for the student's later studies in both literature and composition. Required of Freshmen. *Both terms, three hours.*

Professor ROYSTER, Associate Professor BOOKER, and Mr. SNEATH.

2. First term: Rhetoric and Composition; preparation and criticism of daily and weekly themes. Second term; History of English Literature. Reports on assigned readings. Required of Sophomores. *Both terms, three hours.*

Professor GRAHAM.

3. Advanced Composition. Constant practice throughout the year in the various forms of prose discourse. Lectures and discussions. Junior and Senior elective; prerequisite, a grade of 80 on English 2. *Both terms, three hours.*

4. Essays and Orations. Lectures; analysis of representative essays and orations; construction of essays and orations. Junior and Senior elective. *Both terms, three hours.*

5. Shakespeare. First term: The Rise and Development of the Drama in England, from the Miracle Plays through Marlowe. Second term: A detailed study of four plays of Shakespeare and a rapid reading of the remainder. Junior and Senior elective. *Both terms, three hours.*

Professor Royster.

6. Introductory course in Old English and Middle English. In the first term a careful study is made of Old English grammar and syntax; a large amount of easy Old English prose is read. Text: Bright's *Anglo-Saxon Reader.* In the second term the grammatical work and the reading are carried on into the Middle English period, with special attention to Chaucer. Texts: Greenough's *Selections from Chaucer;* Emerson's *Middle English Reader.* The primary aim of the whole course is to acquaint the student with the main facts of the beginning and development of the English language. The language of the older periods is considered in its relation to present day English; many points of confusion in Modern English, unexplained by the rules of logical grammar, are made clear. Junior and Senior elective. *Both terms, three hours.*

   The attention of students electing this course is called to course 13 in the Latin Department.

7. Advanced course in Old English and Middle English. The work of the first term continues the study of Old English grammar, particularly in its relation to that of the other Indo-European languages, and takes up the reading of Old English poetry. Texts: Wyatt's *Beowulf*; Blackburn's *Exodus and Daniel.* A study of Chaucer's minor poems will be the basis of the work of the second term, 1912. Senior elective; prerequisite, English 6 or its equivalent. *Both terms, two hours.*

8. An Introduction to the Study of the Science of Language. The student will be shown the aims and methods of modern philological study, the larger results of linguistic science and

the relation of these to the general history of civilization. No special linguistic training is necessary for entrance. Junior and Senior elective. *Both terms, two hours.*

9. The Contemporary Drama. In this course the condition of the stage and the character of the plays in England from 1840 to the present day will be sketched. The lectures will deal particularly with the imitation and adaptation of French plays, the attempts to put into dramatic form problems of contemporary life and manners, the sociological and artistic tendencies of the modern drama, the manifestations of decadence, the influence of Ibsen, the recent German drama, the literary drama, and the present day outlook. Representative modern dramas will be assigned for reading. Junior and Senior elective. *Both terms, two hours.*

Professor Mims.

10A. American Literature. Special attention to the literature of New England (1825-1892) and to Southern literature since the Civil War. Junior and Senior elective. *Fall term, three hours.*

10B. English Fiction in the Nineteenth Century. The historical development of the novel and the short story, with special attention to George Eliot, Stevenson, and Kipling. Junior and Senior elective. *Spring term, three hours.*

11. Seventeenth Century Literature. In the main, a comprehensive study of the writings of John Milton, considered in relation to the literature and history of the Civil War. A graduate course open to Seniors. *Both terms, two hours.*
This course alternates with course 12.

12. Eighteenth Century Literature. A study of the development of English prose, of the poetry of the Classical School, and of the beginnings of the Romantic Movement. A graduate course open to Seniors. *Both terms, two hours.*
This course alternates with course 11; to be omitted in 1911-1912.

14. Nineteenth Century English Poetry. Emphasis in the first

term on Wordsworth, Byron, and Shelley, and in the second on Matthew Arnold, Tennyson, and Browning. Junior and Senior elective. *Both terms, three hours.*

Professor ROYSTER.

16. Journalism. Extensive practice in the forms of journalistic composition. Junior and Senior elective. *Both terms, two hours.*

A certificate is granted to a student who has completed with an average grade of not less than 85 courses 1, 2, 6, and six hours of additional elective work.

Public Speaking

Associate Professor MCKIE.

1. A course in declamation and in simple extempore speaking. The aim of this course is to correct faults in speech and to form the habit of simple, clear, direct speaking. Required of Freshmen. *Both terms, one hour.*
2. The Forms of Public Address: the argumentative speech, the commemorative address, the after dinner speech, the eulogy; extempore speaking. Open to Sophomores who have attained a grade of 3 in English 1, and to Juniors and Seniors. *Both terms, two hours.*
3. Debate: the preparation of briefs and forensics, and practice in oral debate. Junior and Senior elective. *Both terms, two hours.*

DEPARTMENT OF GEOLOGY AND MINERALOGY

COLLIER COBB, A.M., *Professor of Geology and Mineralogy.*
JOSEPH HYDE PRATT, Ph.D., *State Geologist and Professor of Economic Geology.*
WILLIAM HENRY FRY, S.B., *Instructor in Geology.*
CHARLES ALEXANDER VOGLER, *Assistant in Geology.*

Professor COBB and Mr. VOGLER.

1. Elementary Geology; lectures with field work; laboratory work on the common minerals and rocks. Sophomore,

Junior, and Senior elective. *Both terms, three hours.*
Laboratory fee, $3.00 for the spring term.

Mr. Fry.

2. Mineralogy; lectures with laboratory and field work; Crosby's *Tables* and Dana's *Text-Book of Mineralogy.* Junior and Senior elective; prerequisite, Geology 1 and Chemistry 1. *Both terms, three hours.*
Laboratory fee, $5.00 a term.

Professor Cobb.

3. General Critical Geology; lectures with field work; laboratory work on rocks and fossils; theses. Junior and Senior elective. *Both terms, three hours.*
Laboratory fee, $3.00 for the fall term, $5.00 for the spring term.

Mr. Fry.

4. Economic Geology; ore deposits and minerals; lectures with laboratory and field work. Junior and Senior elective; prerequisite, Geology 1 and Chemistry 1. *Both terms, three hours,*
Laboratory fee, $1.00 a term.

5. Petrography; lectures, laboratory work, and theses. Junior and Senior elective; prerequisite, Geology 1 and 2. *Both terms, three hours.*

Professor Cobb.

6. Advanced field work and special research in Geology or Geography; problems and work adapted to the professional needs of the student. Students in this course are expected to keep Saturday open for field work. Senior elective; prerequisite, two courses in Geology. *Both terms, three hours.*

7. Advanced course in Physiography. Senior elective; prerequisite, Geology 1 and Zoology 1 or Botany 1. *Both terms, three hours.*
Laboratory fee, $2.00 a term.

8. Origin and Nature of Soils; field work, laboratory work, and theses. Students in this course are expected to keep Sat-

urday open for field work. Junior and Senior elective; prerequisite, Geology 1 and 2, Chemistry 1 and 3, Botany 1. *Both terms, two hours.*
Laboratory fee, $3.00 a term.

8A. Soils and Stones for Road Making. Field work, laboratory work. Prerequisite, Geology 1. *Both terms, one hour.*
Laboratory fee, $1.00 a term.

Professor PRATT.

11. Mineral and Ore Deposits; lectures supplemented by laboratory and field work. Prerequisite, Geology 1 and 2 and Chemistry 3. *Twenty-four lectures (Spring term).*

12. Principles and Practice in General Mining; lectures supplemented by visits to different minning regions.

Professor COBB.

13. Advanced Geological Field Work and Special Research; studies in the Deep River and Wadesboro areas of the Triassic rocks; a brief examination of the Potomac, Eocene, Lafayette, and Columbia deposits. This course is given in the summer. It covers five weeks, of which one is spent in Chapel Hill with daily meetings, the remaining four weeks are devoted to field work. Students who take this course will be expected to devote all their time to it. Junior and Senior elective. *One term, three hours.*
The Geological Seminary meets fortnightly for review and discussion of current geological literature, and for the presentation of original papers.
For course 9, see Graduate School.

DEPARTMENT OF GERMANIC LANGUAGES

*WALTER DALLAM TOY, M.A., *Professor of the Germanic Languages and Literatures.*

GEORGE BURRIDGE VILES, Ph.D., *Professor of German.*

PALMER COBB, Ph. D., *Associate Professor of German and Acting Head of the Department.*

CYRUS DUNLAP HOGUE, A.B., *Assistant in German.*

*Absent on leave, 1910-1911.

Professor Viles, Associate Professor Cobb, and Mr. Hogue.

A. Elementary Course: grammar; written and oral exercises; translation; sight reading. This course may be counted for entrance only. *Both terms, three hours.*

Professor Viles and Associate Professor Cobb.

1. Translation, sight reading, composition, grammar. Required of Freshmen in Group 3, elective in Group 2; Sophomore elective. *Both terms, three hours.*

Professor Viles.

2A. Schiller: Die Jungfrau von Orleans, Wallenstein's Tod; Goethe; Egmont, Iphigenie auf Tauris; Lessing: Minna von Barnhelm; lectures on German Literature. Sophomore elective in group 2; Junior and Senior elective; prerequisite, German 1. *Both terms, three hours.*

Associate Professor Cobb.

2B. History of German Literature in the nineteenth century after 1832; rapid reading from representative authors of the nineteenth century, with parallel lectures. Junior and Senior elective; prerequisite, German 1. *Both terms, three hours.*

Professor Viles.

3. History of German Literature; lectures with parallel reading and written reports. Junior and Senior elective; prerequisite, German 2A or 2B. *Both terms, three hours.*

Associate Professor Cobb.

4. Middle High German: Paul's Mittelhochdeutsche Grammatik: Bachmann's Mittelhochdeutsches Lesebuch; translation into New High German. Junior and Senior elective; prerequisite, German 2A or 2B. *Both terms, three hours.*
This course alternates with course 5.

5. Old High German: Braune's Althochdeutsche Grammatik; Braune's Althochdeutsches Lesebuch. Junior and Senior

elective; prerequisite, German 2A or 2B. *Both terms, three hours.*

This course alternates with course 4; to be obmitted in 1911-1912.

Professor VILES.

6. Gothic; Braune's Gotische Grammatik; selected parts of Paul's Grundriss der Germanischen Philologie. Introduction to Germanic Philology. Junior and Senior elective, prerequisite, German 2A, or 2B, or 3. *Both terms, three hours.*

7. Goethe: Goetz von Berlichingen, Tasso, Dichtung und Wahrheit, Hermann und Dorothea, Faust. Junior and Senior elective; prerequisite, German 2A, or 2B, or 3. *Both terms, three hours.*

This course may be elected only after consultation with the instructor; to be obmitted in 1911-1912.

A certificate is granted to a student who has completed with credit any four courses exclusive of course A.

DEPARTMENT OF GREEK

CHARLES WESLEY BAIN, M. A., *Professor of the Greek Language and Literature.*

WILLIAM STANLY BERNARD, A. M., *Associate Professor of Greek.*

Associate Professor BERNARD.

A. A course for students who have had no opportunity of studying Greek in the preparatory schools. This course may be counted for entrance only. Moss's First Greek Reader; Babbitt's Greek Grammar; Xenophon's Anabasis. *Both terms, three hours.*

Professor BAIN and Associate Professor BERNARD.

1. Lysias, selected speeches; review of important grammatical principles; Homer's Iliad, books I., II., and III., and Odyssey, book VI.; reading at sight. Required of Freshmen in Group 1, elective in Group 2. *Both terms, four hours.*

Professor Bain.

2. Lysias, Selected Speeches; Plato, Apology and Crito; Euripides, Medea; reading at sight; lectures on Greek Literature. Sophomore elective in Groups 1 and 2. *Both terms, three hours.*

3. Prose Composition, elementary course, intended as supplementary to Greek 1. Open to students who are taking Greek 1 or 2. *Both terms, one hour.*

4. Lectures on Old Greek Life; History of Greek Art, text-book and lectures. Junior and Senior elective. *Both terms, two hours.*

5. Modern Greek; Rangabe's Handbook; Bikelas' Stories; Newspapers. Junior and Senior elective. *Spring term, two hours.*

Associate Professor Bernard.

6 Homer, rapid reading of the entire Odyssey. Junior and Senior elective. *Both terms, two hours.*

Professor Bain.

7. Greek Drama: Euripides, Iphigenia among the Taurians; Sophocles, Oedipus Tyrannus; Aeschylus, Agamemnon; Aristophanes, Clouds; Aristotle, Poetics. Junior and Senior elective. *Both terms, three hours.*

9. Demosthenes, three Philippics. Junior and Senior elective. *Spring term, two hours.*

10. Thucydides, Book I. Junior and Senior elective. *Fall term, three hours.*

Associate Professor Bernard.

14A. The Greek New Testament: The Acts of the Apostles, study of grammar and diction, comparison with English versions. Junior and Senior elective; prerequisite, Greek 2. *Fall term, two hours.*

14B. The Greek New Testament; The Gospels, selections from the Epistles and Revelation; the principles of textual criti-

cism, sources of the Greek text with history of the text and versions. Junior and Senior elective; prerequisite, Greek 14A. *Spring term, two hours.*

15. Classical Archaeology. History and principles of Greek and Roman architecture, sculpture, painting, with some account of the minor arts. Lectures with prescribed reading. Junior and Senior elective. *Both terms, two hours.*
This course is the same as Latin 15.

16. Classical Archaeology. Ancient Rome and Athens: a brief survey of the topography and monuments of the two cities. Lectures with prescribed reading. Junior and Senior elective, open also to Sophomores taking Greek 2 and Latin 2. *Fall term, two hours.*
This course is the same as Latin 16.

Professor BAIN.

17. Greek Epigraphy and Palaeography; a brief introduction to the study of Greek inscriptions and manuscripts. Lectures and reports. Senior elective. *Spring term, two hours.*
The attention of students electing this course is called to course 14 in the Latin Department.

Professor T. J. WILSON, JR.

19. Indo-European Philology: introductory course. History and methods of linguistic study; growth and classification of the Indo-European languages; linguistic palaeontology. Junior and Senior elective. *Both terms, two hours.*
The attention of students electing this course is called to courses 6 and 8 in the Department of English and to course 6 in the Department of Germanic Languages. The course is the same as Latin 13.

For courses 8, 11, 12, and 18, see Graduate School.

A certificate is granted to a student who has completed with credit courses 1, 2, and four hours of elective work.

DEPARTMENT OF HISTORY

KEMP PLUMMER BATTLE, LL.D., *Professor Emeritus of History.*

JOSEPH GREGOIRE DE ROULHAC HAMILTON, Ph.D., *Alumni Professor of History.*

HENRY MCGILBERT WAGSTAFF, Ph.D., *Professor of History.*

CHARLES EUGENE MCINTOSH, *Assistant in History.*

Professors HAMILTON and WAGSTAFF, and Mr. MCINTOSH.

1. American History: a general course covering the social, political, and economic development of the United States; text-books, lectures, and readings. Required of Freshmen in groups 2 and 3. *Both terms, three hours.*

Professor WAGSTAFF.

2. Mediaeval European History: a general course covering the period, 400-1648; text-books, readings, and lectures. Junior and Senior elective. *Both terms, two hours.*
   To be omitted in 1911-1912.

3. English History: a general course; text-books, lectures, and readings. Sophomore, Junior, and Senior elective. *Both terms, three hours.*

4. Modern European History: a general course covering the period 1648-1900; text-books, readings, and lectures. Junior and Senior elective. *Both terms, two hours.*

Professor HAMILTON.

5. The English Constitution and Government: a careful study of English constitutional development and the present government of the English people. Lectures, text-books, and readings. Junior and Senior elective. *Both terms, three hours.*
   This course alternates with course 7; to be omitted in 1911-1912.

6. North Carolina History: a general study of the constitutional, political, and economic development of the State in the period since the Revolution; lectures, readings, and reports. Junior and Senior elective. *Spring term, two hours.*

7. The American Constitution and Government: a careful study of the constitution of the United States by means of cases; followed by a study of the political customs and institutions of the American people. Text-book, lectures, and readings. Junior and Senior elective. *Both terms, three hours.*
   This course alternates with course 5.

Professor WAGSTAFF.

8. Classical History: a general course dealing largely with the Greeks and Romans; text-books, lectures, and readings. Sophomore, Junior, and Senior elective. *Both terms, three hours.*

9. Spanish-American History, 1492-1909. The course especially emphasizes the history of the leading Spanish-American countries from their revolutionary period to the present; lectures, text-books, and readings. Junior and Senior elective, open also to Sophomores. *Both terms, two hours.*

Professor HAMILTON.

10. Civil War and Reconstruction: a detailed study of the constitutional, political, and economic phases of the period of Civil War and Reconstruction; lectures, readings, and reports. Senior elective; prerequisite History 1 or History 11. *Both terms, two hours.*

11. The Middle Period: a careful study of the leading movements in the United States from the adoption of the Constitution to 1850; lectures, readings, and reports. Junior and Senior elective. *Fall term, two hours.*

12A. The Protestant Revolt: a detailed study of the causes, progress, and results of the Protestant movement, with special attention to the lives, doctrines, and influence of Luther and Calvin; text-books, lectures, and readings. Junior and Senior elective. *Fall term, two hours.*

12B. The French Revolution: a detailed study of the causes, progress, and results of the Revolution; text-books, lectures, and readings. Junior and Senior elective. *Spring term, two hours.*

A certificate is granted to a student who has completed with credit fifteen hours in History.

For courses 13 and 14 see Graduate School.

DEPARTMENT OF LATIN

GEORGE HOWE, Ph.D., *Professor of the Latin Language and Literature.*

THOMAS JAMES WILSON, JR., Ph.D., *Associate Professor of Latin.*
GEORGE KENNETH GRANT HENRY, A. M., *Instructor in Latin.*
EDGAR WILLIS TURLINGTON, *Assistant in Latin.*

Professor HOWE and Messrs HENRY and TURLINGTON.

1. Cicero, De Senectute and De Amicitia; Livy, Book I.; Horace, Odes and Epodes. Required of Freshmen in Group 1, elective in Group 2. *Both terms, four hours.*

Associate Professor WILSON and Mr. HENRY.

2. Plautus, Menaechmi; Terence, Phormio; Horace, Satires and Epistles; Tacitus, Agricola and Germania. Sophomore elective in Groups 1 and 2. *Both terms, three hours.*

Associate Professor WILSON.

3. Latin Prose Composition, based on Cicero and Livy; intended as supplementary to Latin 1. Open to students who are taking Latin 1 or 2. *Both terms, one hour.*

4. Latin Comedy: reading of selected plays of Plautus and Terence, with a study of the historical development of ancient comedy. Junior and Senior elective. *Both terms, two hours.*
   This course alternates with course 6.

Professor HOWE.

5. Pliny, selected Letters; Juvenal, Satires; Martial, selected Epigrams; reading with special reference to the private life of the Romans at the close of the first century A. D. Junior and Senior elective. *Both terms, two hours.*
   This course alternates with course 9; to be obmitted in 1911-1912.

Associate Professor WILSON.

6. Cicero: rapid reading of the philosophical works, De Officiis and Tusculan Disputations, and of the rhetorical works,

Brutus and De Oratore. Junior and Senior elective. *Both terms, two hours.*

This course alternates with course 4; to be obmitted in 1911-1912.

Professor Howe.

7. Roman Political Institutions; lectures. Junior and Senior elective, open also to Sophomores who are taking Latin 2. *Fall term, two hours.*

This course alternates with course 7A.

7A. The Private Life of the Romans; lectures. Junior and Senior elective, open also to Sophomores who are taking Latin 2. *Fall term, two hours.*

This course alternates with course 7; to be obmitted in 1911-1912.

8. History of Roman Literature; lectures. Junior and Senior elective, open also to Sophomores who are taking Latin 2. *Spring term, two hours.*

9. Roman elegiac poets; rapid reading of selected elegies of Catullus, Tibullus, Propertius, and Ovid; a study of the lives of the elegists; the history of Greek and Roman elegy. Junior and Senior elective. *Both terms, two hours.*

This course alternates with course 5.

Associate Professor Wilson.

10. A course for teachers, embracing pronunciation, prosody, the art of reading Latin, and a classification of moods and tenses. Junior and Senior elective. *Both terms, two hours.*

13. Indo-European Philology: introductory course. History and methods of linguistic study; growth and classification of the Indo-European languages; linguistic palaeontology. Lectures. Junior and Senior elective. *Both terms, two hours.*

The attention of students electing this course is called to courses 6 and 8 in the Department of English and to course 6 in the Department of Germanic Languages. The course is the same as Greek 19.

Professor Howe.

14. Latin Epigraphy and Palaeography: a brief introduction to

the study of Latin inscriptions and manuscripts. Lectures and reports. Senior elective. *Fall term, two hours.*

The attention of students electing this course is called to course 17 in the Department of Greek.

Associate Professor BERNARD.

15. Classical Archaeology. History and principles of Greek and Roman architecture, sculpture, painting, with some account of the minor arts. Lectures with prescribed reading. Junior and Senior elective. *Both terms, two hours.*

This course is the same as Greek 15.

16. Classical Archaeology. Ancient Rome and Athens: a brief survey of the topography and monuments of the two cities. Lectures with prescribed reading. Junior and Senior elective, open also to Sophomores taking Greek 2 and Latin 2. *Fall term, two hours.*

This course is the same as Greek 16.

For courses 11 and 12, see Graduate School.

A certificate is granted to a student who has completed with credit courses 1, 2, and 3, and six hours of elective work.

DEPARTMENT OF MATHEMATICS

WILLIAM CAIN, C. E., *Professor of Mathematics.*

*ARCHIBALD HENDERSON, Ph.D., *Professor of Pure Mathematics.*

MARVIN HENDRIX STACY, A. M., *Professor of Civil Engineering.*

GUY ROGER CLEMENTS, A. M., *Professor of Pure Mathematics.*

GEORGE WESTON MITCHELL, *Associate Professor of Drawing.*

THOMAS FELIX HICKERSON, A. M., *Associate Professor of Mathematics.*

JONAS MACAULAY COSTNER, JR., A. B., *Instructor in Mathematics.*

THEOPHILUS RANDOLPH EAGLES, JR., A. B., *Instructor in Mathematics.*

JOHN WAYNE LASLEY, JR., A. B., *Fellow in Mathematics.*

Professor CLEMENTS, and Messrs. HICKERSON, COSTNER, and EAGLES.

1. Algebra, from Quadratics through Theory of Equations (Fine's

*Absent on leave, 1910-1911.

College Algebra); Plane and Spherical Trigonometry and Logarithms. Required of Freshmen. *Both terms, four hours.*

Professors CAIN and CLEMENTS.

2. Brief Course in Conic Sections (Smith and Gale's *Analytic Geometry*); Elementary Course in Differential and Integral Calculus (Cain's *Brief Course in the Calculus*). Required of Sophomores in Group 3, elective in Groups 1 and 2. *Both terms, three hours.*

Professor STACY and Associate Professor MITCHELL.

3. Surveying (Raymond) and Higher Surveying, Drawing. Junior and Senior elective; prerequisite, Mathematics 1. *Both terms, three hours.*

Professor CLEMENTS.

3A. (*a*) Higher Algebra. (*b*) Elementary Mechanics (Loney.) Junior and Senior elective; prerequisite, Mathematics 1. *Both terms, three hours.*

Associate Professor MITCHELL.

3B. Graphics; Descriptive Geometry (Church); Shades, Shadows, and Perspective (Mitchell); lectures and plates. Junior and Senior elective. *Both terms, two hours.*

3C. Stereotomy. A course in the application of Descriptive Geometry to the making of drawings for masonry structures, such as intersecting arches and walls, abutments, piers and culverts. A study of warped surfaces and drawings for the helicoidal arch. Senior elective; prerequisite, Mathematics 3B. *Spring term, two hours.*

Professor CAIN.

4. Calculus, Analytic Mechanics. Junior and Senior elective; prerequisite, Mathematics 2. *Both terms, three hours.*

Professor CLEMENTS.

5. Theory of Equations (Burnside and Panton). Junior and Senior elective; prerequisite, Mathematics 2. *Both terms, three hours.*

6. Differential Equations (Murray). Senior elective; prerequisite, Mathematics 4. *Both terms, three hours.*

Professor Stacy.

7. Road and Railroad Surveying and Engineering. Senior elective; prerequisite, Mathematics 3. *Both terms, two hours.*

7A. Hydraulics and Sanitary Engineering. Senior elective; prerequisite, Mathematics 4. *Both terms, three hours.*

Professor Cain.

8. Mechanics of Materials. Senior elective; prerequisite, Mathematics 4. *Both terms, three hours.*

Associate Professor Hickerson.

10. Theory of Structures. Senior elective; prerequisite, Mathematics 4. *Both terms, four hours.*

Professor Cain.

11A. Retaining Walls and Dams. Junior elective; prerequisite, Mathematics 2. *Both terms, one hour.*

Associate Professor Hickerson.

11B. Arches. Senior elective; prerequisite, Mathematics 4. *Both terms, one hour.*

13. Design of Structures. Senior elective, may be taken in connection with Mathematics 8 and 10. *Spring term, four hours.*

Professor Stacy.

14. Brief Course in Strength of Materials and Stresses and Trusses. Junior and Senior elective; prerequisite, Mathematics 2. *Both terms, two hours.*

Associate Professor Hickerson.

16. Road Construction and Drainage; Road Location. Prerequisite, Mathematics 3. *Both terms, two hours.*

For additional courses, see Graduate School.

Drawing

Associate Professor MITCHELL.

1. Freehand and Mechanical Drawing. (*a*) Freehand drawing; sketching from dictation, sketching of geometrical figures, sketching from flat copy and from models; application of rules of perspective and light and shade. (*b*) Lettering: Freehand and mechanical lettering. (*c*) Mechanical drafting; the use of instruments; geometrical drafting; orthographic projection; elementary working drawings. Text-Books: Anthony's *Mechanical Drawing*; Reinhardt's *Freehand Lettering*. Not counted for the degree. *Both terms, two hours.*

2. Mechanical and Topographical Drawing: (*a*) Mechanism and Valve-gears, including the design of cams, gears, slide valves, etc.; dimensions and working drawings of machines from measurements. (*b*) Topography: topographical symbols, map drawing in pen and ink and colors. Text-Books: Spooner's *Machine Drawing and Design* and Daniel's *Topographical Drawing*. Not counted for the degree. *Both terms, two hours.*

2A. Mechanical Drawing: working drawings; tracings; blueprints; structural work; teaching systems of dimensioning; conventional representations; topographical drawing; conventional signs and plotting. Text-books, Anthony's *Machine Drawing*; Daniel's *Topographical Drawing*. Not counted for the degree. *Both terms, two hours.*

3. Mechanical Drawing; machine drafting, work drawings; tracing and blue prints of machine details; assembly drawing; machine design; complete shop and erection drawing with bill of material, in accordance with modern drafting room systems and standards. Not counted for the degree; prerequisite, Drawing 1 and 2. *Both terms, two hours.*

5. Advanced Freehand Drawing; charcoal and crayon, pen and ink, brush drawing: lectures. Not counted for the degree. *Both terms, two hours.*

6. Theory of Perspective: lectures and plates. Not counted for the degree. *Both terms, two hours.*
7. Structural Drafting: standard rolled sections, conventional riveting signs, standard connections, methods of framing and detailing structural work, beams, columns, plate girders, roof trusses, bridge details. Not counted for the degree. *Both terms, two hours.*

DEPARTMENT OF PHILOSOPHY

Henry Horace Williams, A.M., B.D., *Professor of Philosophy.*

1. Psychology: lectures, with text-books. Junior and Senior elective. *Both terms, three hours.*
2. Logic: lectures, with text-books; the study of logic in life. Junior and Senior elective. *Both terms, two hours.*
3. Ethics: criticism and discussions. Junior and Senior elective. *Both terms, two hours.*
4. Philosophy: lectures; theses; a study of the forces that shape life. Junior and Senior elective. *Both terms, three hours.*
   For course 5, see Graduate School.

DEPARTMENT OF PHYSICS

Andrew Henry Patterson, A.M., *Professor of Physics.*
Parker Hayward Daggett, S.B., *Associate Professor of Electrical Engineering.*
Vivian Leroy Chrisler, A.M., *Instructor in Physics.*
James Talmage Dobbins, *Assistant in Physics.*
Alexander Littlejohn Feild, *Assistant in Physics.*
George Wesley Thompson, *Assistant in Physics.*

Mr. Chrisler.

A. Elementary Physics: lectures, with text-book, weekly written reviews, laboratory work. May be counted for entrance; open also to students in the Schools of Medicine and Pharmacy. *Both terms, three hours.*
   Laboratory fee, 50 cents a term.

Professor PATTERSON.

1. General Physics: lectures, with text-books; problems; laboratory work. Required of Sophomores in Group 3; elective in Groups 1 and 2; prerequisite, Mathematics 1. *Both terms, three hours.*
Laboratory fee, $1.25 a term.

2. Modern Electrical Theory: the electron theory, electrolysis, conduction of electricity through gases, electrical nature of matter, radioactivity; lectures and recitations. Junior and Senior elective; prerequisite, Physics 1. *Both terms, two hours.*

4. Study of Electricity and Magnetism, with laboratory work; Franklin and MacNutt's *Electricity and Magnetism.* Junior and Senior elective. *Both terms, two hours.*
Laboratory fee, $2.00 a term.

5. Descriptive Astronomy: a general course; lectures and recitations with use of lantern slides; Junior and Senior elective; prerequisite, Physics 1. *Both terms, two hours.*

6. Advanced Heat and Thermodynamics. This study is based on Edser's *Heat for Advanced Students*, Ewing's *The Steam Engine and Other Heat Engines*, and Peabody's *Thermodynamics of the Steam Engine.* Junior and Senior elective; prerequisite, Physics 1. *Both terms, two hours.*

Associate Professor DAGGETT.

10. The Elements of Electrical Engineering: an introductory course in the theory and practical operation of direct and alternating current machines and apparatus. Laboratory work one afternoon a week. Junior and Senior elective; prerequisite, a grade of 80 on spring term of Physics 1. *Both terms, three hours.*
Laboratory fee, $2.00 a term.

11. Alternating Currents and Alternating Current Machinery. Lectures and problem work; testing and study of alternating current machines in the laboratory. Senior elec-

tive; prerequisite, Physics 10 and Mathematics 4. *Both terms, four hours.*
Laboratory fee, $2.50 a term.

12A. Illuminating Engineering: theoretical and practical study of modern light sources, both gas and electric. Junior and Senior elective; prerequisite, Physics 10. *Fall term, two hours.*

12B. Electric Power Transmission: a study of the theory, construction, and operation of modern low and high tension circuits for the transmission of power Senior elective; prerequisite, fall term of Physics 11. *Spring term, two hours.*

13B. Electric Design: fundamental principles of the design of electrical machinery. Lectures, calculations, preparation of drawings and specifications. Senior elective; prerequisites, Physics 11 and 14, which may be taken in the same year with 13B. *Spring term, two hours.*

14. Electrical Engineering Laboratory: calibration of instruments, testing of electric lamps and storage batteries; dielectric tests; dynamo and motor characteristics; regulation; efficiency; heating. Senior elective; prerequisite, Physics 10. *Both terms, three hours.*
Laboratory fee, $5.00 a term.

15. Steam Engineering: boilers, furnaces, steam pumps and other boiler room accessories; steam engines, valves and valve-gears; steam turbines; gas and oil engines, gas producers. Lectures, problems, and laboratory work in the University Power Station. Junior elective; prerequisites, Drawing 1 and Physics 1. *Both terms, two hours.*
Laboratory fee, $2.50 a term.
For courses for graduate students, see Graduate School.

DEPARTMENT OF ROMANCE LANGUAGES

WILLIAM MORTON DEY, Ph. D., *Professor of the Romance Languages and Literatures.*

OLIVER TOWLES, A.B., *Associate Professor of Romance Languages.*

JOHN NOTTINGHAM WARE, A.M., *Instructor in the Romance Languages.*

French

Professor Dey, Associate Professor Towles, and Mr. Ware.

A. Elementary Course: grammar; pronunciation taught by the phonetic method; oral and written exercises; translation and reading at sight. This course may be counted for entrance only. *Both terms, three hours.*

1. Continuation of course A. Grammar; composition; reading of modern French literature. Required of Freshmen in Group 3; elective in Group 2; Sophomore elective. *Both terms, three hours.*

Professor Dey.

2. Advanced Course. Studies in reading and writing French, and in pronunciation. French phonetics. Sophomore elective in Group 2; Junior and Senior elective; prerequisite, French 1. *Both terms, three hours.*

Associate Professor Towles.

3. French Literature. A general outline of its various periods. Lectures, reading, reports. Junior and Senior elective; prerequisite, French 2. *Both terms, three hours.*

4A. French Literature in the Seventeenth Century. Lectures, reading, reports. Junior and Senior elective; prerequisite, French 3. *Both terms, three hours.*

This course alternates with course 4B; to be omitted in 1911-1912.

Professor Dey.

4B. French Literature in the Eighteenth Century. Lectures, reading, reports. Junior and Senior elective; prerequisite, French 3. *Both terms, three hours.*

This course alternates with course 4A.

5. French Literature in the Nineteenth Century. Lectures, reading, reports. Junior and Senior elective; prerequisite, French 3. *Both terms, three hours.*

Spanish

Professor Dey.

1. Elementary Course: grammar; pronunciation; oral and

written exercises; translation and reading at sight. Junior and Senior elective. *Both terms, three hours.*

2. Second Year Course. Wide reading of representative writers of the eighteenth and nineteenth centuries. Grammar; composition based on selected texts. Junior and Senior elective; prerequisite, Spanish 1. *Both terms, three hours.*

3. Spanish Literature in the Sixteenth and Seventeenth Centuries. Cervantes, Lope de Vega, Calderon. Junior and Senior elective; prerequisite, Spanish 2. *Both terms, two hours.*

Italian

Professor Dey.

1. Elementary course; grammar; pronunciation; oral and written exercises; translation and reading at sight. Junior and Senior elective. *Both terms, three hours.*

DEPARTMENT OF ZOOLOGY

Henry Van Peters Wilson, Ph.D., *Professor of Zoology.*
Orren Williams Hyman, A.B., *Assistant in Zoology.*
Lee Franklin Turlington, A.B., *Assistant in Zoology.*

Professor Wilson and Messrs. Hyman and Turlington.

1. General Zoology: an introductory course giving an outline of the classification and structure of animals, with consideration of the fundamentals of histology, embryology, and physiology, and some consideration of biological theories; lectures with laboratory work. Sophomore, Junior, and Senior elective, and open to First Year medical students. *Both terms, three hours.*

2. Comparative Anatomy and Embryology of the Vertebrates; study of types of fishes, amphibia, reptiles, birds, mammals; development of the characteristic vertebrate organs in the frog and chick; fundamentals of microscopic technique; laboratory work with occasional lectures. Junior and Senior elective. *Both terms, three hours.*

3. Comparative Anatomy and Embryology of the Invertebrates;

dissection and microscopic study of types of the chief orders, with some consideration of their embryology; laboratory work with occasional lectures. Junior and Senior elective. *Both terms, three hours.*

A certificate is granted to a student who has completed with credit courses 1, 2, and 3, and Botany 1.

SCHOOL OF APPLIED SCIENCE

FACULTY

FRANCIS PRESTON VENABLE, Ph.D., Sc., LL.D., PRESIDENT.
CHARLES HOLMES HERTY, Ph.D., DEAN.

*WALTER DALLAM TOY, M. A., *Professor of the Germanic Languages and Literatures.*

WILLIAM CAIN, C. E., *Professor of Mathematics.*

COLLIER COBB, A. M., *Professor of Geology and Mineralogy.*

JOSEPH HYDE PRATT, Ph.D., *State Geologist and Professor of Economic Geology.*

CHARLES HOLMES HERTY, Ph.D., *Professor of General and Industrial Chemistry.*

EDWARD KIDDER GRAHAM, A. M., *Professor of English.*

*ARCHIBALD HENDERSON, Ph.D., *Professor of Pure Mathematics.*

ANDREW HENRY PATTERSON, A. M., *Professor of Physics.*

EDWIN MIMS, Ph.D., *Professor of English.*

WILLIAM MORTON DEY, Ph.D., *Professor of the Romance Languages and Literatures.*

MARVIN HENDRIX STACY, A. M., *Professor of Civil Engineering.*

JAMES FINCH ROYSTER, Ph.D., *Professor of English.*

GEORGE BURRIDGE VILES, Ph,D., *Professor of Germanic Languages and Literatures,*

GUY ROGER CLEMENTS, A. M., *Professor of Pure Mathematics.*

*ALVIN SAWYER WHEELER, Ph.D., *Associate Professor of Organic Chemistry.*

PALMER COBB, Ph.D., *Associate Professor of German.*

GEORGE WESTON MITCHELL, *Associate Professor of Drawing.*

JOHN MANNING BOOKER, A. B., *Associate Professor of English.*

OLIVER TOWLES, A. B., *Associate Professor of the Romance Languages.*

*Absent on leave 1910-1911.

THOMAS FELIX HICKERSON, A. M., *Associate Professor of Mathematics.*

PARKER HAYWARD DAGGETT, S. B., *Associate Professor of Electrical Engineering.*

ROBERT ANDERSON HALL, Ph.D., *Associate Professor of Organic Chemistry.*

JAMES MUNSIE BELL, Ph.D., *Associate Professor of Physical Chemistry.*

JONAS MACAULAY COSTNER, A. B., *Instructor in Mathematics.*

HAMPDEN HILL, S. B., *Instructor in Chemistry.*

VIVIAN LEROY CHRISLER, A. M., *Instructor in Physics.*

THEOPHILUS RANDOLPH EAGLES, JR., A. B., *Instructor in Mathematics.*

WILLIAM HENRY FRY, A. B., *Instructor in Geology.*

GEORGE MARK SNEATH, A. M., *Instructor in English.*

JOHN NOTTINGHAM WARE, A. M., *Instructor in French.*

CHARLES SCOTT VENABLE, A. B., *Fellow in Chemistry.*

JOHN WAYNE LASLEY, JR., A. B., *Fellow in Mathematics.*

ROBERT LEE HUNTER, *Assistant in Chemistry.*

WILLIAM LEWIS JEFFRIES, A. B., *Assistant in Chemistry.*

THOMAS PALMER NASH, JR., *Assistant in Chemistry.*

WILLIAM AUGUSTUS RUDISILL, A. B., *Assistant in Chemistry.*

CHARLES ALEXANDER VOGLER, *Assistant in Geology.*

CYRUS DUNLAP HOGUE, A. B., *Assistant in German.*

JAMES TALMAGE DOBBINS, *Assistant in Physics.*

ALEXANDER LITTLEJOHN FEILD, *Assistant in Physics.*

GORDON WESLEY THOMPSON, *Assistant in Physics.*

COURSES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

In order to be recommended for the degree of Bachelor of Science, the student must have passed satisfactory examinations in all the studies required in one of the following courses outlined in this department, I, II, III, IV, and V. Each course combines instruction in certain sciences and their application to the arts with certain other general studies deemed essential to a liberal education.

These courses are designed to furnish the fundamental instruction and to prepare students to pursue the technical professions to which they lead. The courses leading to the degree are five in number; course IIIA. is a special course.

I. Chemical Engineering.
II. Electrical Engineering.
III. Civil Engineering.
IIIA. Road Engineering.
IV. Mining Engineering.
V. Soil Investigation.

ADMISSION

Candidates for admission to the School of Applied Science must present 14 units for entrance. A complete list of these units and the requirements in each subject will be found on pp. 26-31 of the general catalogue.

The specific requirements are as follows:

English *a*, *b*	3. units
History, *a* or *b*	2. units
Mathematics, *a*, *b*, *c*	3. units
French *a* or German *a*	2. units
Science	1. unit
Elective	3. units

At least 12 units must be offered. A condition of 2 units may be made up after entrance.

I. CHEMICAL ENGINEERING

FRESHMAN YEAR

English 1	(3)*
Mathematics 1	(4)
German 1	(3)
Chemistry 1	(3)
Drawing 1	(2)

*Numerals in parentheses indicate the number of hours a week.

SOPHOMORE YEAR

English 2 ..... (3)
Mathematics 2 ..... (3)
Chemistry 3, Qualitative Analysis ..... (2)
Chemistry 4, Quantitative Analysis and Assaying ..... (3)
Physics 1, General Course ..... (3)
Drawing 2A ..... (2)

JUNIOR YEAR

Chemistry 16, Inorganic Chemistry, advanced ..... (1½)
Chemistry 2, Technical Chemistry ..... (3)
Chemistry 17, Quantitative Analysis, advanced ..... (3)
Chemistry 5, Organic Chemistry, advanced ..... (3)
Chemistry 7, Elementary Physical Chemistry ..... (2)
Geology 1 ..... (3)
Physics 15, Steam Machinery ..... (1)

SENIOR YEAR

Chemistry 6, Theories of Chemistry ..... (1)
Chemistry 5A, Organic Chemistry ..... (2)
Select one { Chemistry 7A, Physical Chemistry, advanced ..... (3)
Chemistry 7B, Electro-Chemistry ..... (2)
Chemistry 8, Advanced Quantitative Analysis and Research ... (5)
Physics 10, Electric Machinery ..... (3)
Physics 6, Thermodynamics (fall term) ..... (1)
Geology 2, Mineralogy ..... (3)

II. ELECTRICAL ENGINEERING

FRESHMAN YEAR

English 1 ..... (3)
Mathematics 1 ..... (4)
German 1 ..... (3)
Chemistry 1 ..... (3)
Drawing 1 ..... (2)

SOPHOMORE YEAR

English 2 ..... (3)
Mathematics 2..... (3)
German 2..... (3)
Physics 1, General Course..... (3)
Physics 4, Electricity and Magnetism..... (2)
Chemistry 3, Qualitative Analysis..... (2)

JUNIOR YEAR

Mathematics 3, Surveying..... (3)
Mathematics 3B..... (2)
Mathematics 4..... (3)
Physics 10, Electric Machinery ..... (3)
Physics 6, Thermodynamics..... (2)
Physics 15, Steam Machinery..... (2)
Drawing 3..... (2)

SENIOR YEAR

Physics 11, Alternating Currents..... (4)
Physics 12A, Batteries..... (1)
Physics 12B, Electric Lighting, Wiring, and Distribution..... (1)
Physics 14, Electric Testing..... (3)
Chemistry 7B, Electro-Chemistry..... (2)
Physics 13B, Electrical Design..... (2)
Mathematics 7A, Hydraulics ..... (3)

III. CIVIL ENGINEERING

FRESHMAN YEAR

English 1..... (3)
Mathematics 1..... (3)
Select one { German 1..... (3) / French 1..... (3)
Chemistry 1..... (3)
Drawing 1..... (2)

SOPHOMORE YEAR

English 2 ..... (3)
Mathematics 2 ..... (3)
Mathematics 3, Surveying ..... (2)
Mathematics 3A, spring term ..... (1½)
Physics 1, General Course ..... (3)
Geology 1, fall term ..... (1½)
Drawing 2A ..... (2)

JUNIOR YEAR

Mathematics 3B, Descriptive Geometry ..... (2)
Mathematics 4, Calculus and Analytical Mechanics ..... (3)
Mathematics 7, Road and Railroad Surveying and Engineering ..... (3)
Mathematics 16, Road Construction, Drainage, and Location (2)
Mathematics 11A, Retaining Walls and Dams ..... (1)
English 3A ..... (1½)
Geology 8A, Soil Surveying and Rocks for Road Construction (1)
Drawing 2 ..... (2)

SENIOR YEAR

Mathematics 7A, Hydraulics and Sanitary Engineering ..... (3)
Mathematics 11B, Arches ..... (1)
Mathematics 8, Mechanics of Materials ..... (3)
Mathematics 10, Theory of Structures ..... (4)
Mathematics 13, Design of Structures ..... (3)
Physics 10, Electrical Machinery ..... (3)

IIIA. ROAD ENGINEERING

FRESHMAN YEAR

English 1 ..... (3)
Mathematics 1 ..... (4)
Select one { German 1 ..... (3) / French 1 ..... (3)
Chemistry 1 ..... (3)
Drawing 1 ..... (2)

SOPHOMORE YEAR

English 2 ..... (3)
Mathematics 2 ..... (3)
Mathematics 3..... (2)
Mathematics 3A, spring term ..... (1½)
Physics 1..... (3)
Drawing 2A ..... (2)
Geology 1, fall term ..... (1½)

JUNIOR YEAR

Mathematics 4, Calculus and Analytical Mechanics ..... (3)
Mathematics 7, Road and Railroad Surveying and Engineering ..... (3)
Mathematics 14, Brief Course in Strength of Materials and Stresses in Trusses ..... (2)
Mathematics 16, Road Construction, Drainage, and Location (2)
Road Management, Building Model Roads ..... (1)
Geology 8A, Soil Surveying and Rocks for Road Construction (1)
Drawing 2 ..... (2)
English 3A ..... (1½)

IV. MINING ENGINEERING

FRESHMAN YEAR

English 1 ..... (3)
German 1 ..... (3)
Mathematics 1 ..... (4)
Chemistry 1, General Chemistry ..... (3)
Drawing 1 ..... (2)

SOPHOMORE YEAR

English 2 ..... (3)
Mathematics 2 ..... (3)
Physics 1, General Course ..... (3)
Geology 1 ..... (3)
Chemistry 3, Qualitative Analysis ..... (2)
Drawing 2A ..... (2)

JUNIOR YEAR

Mathematics 3, Surveying and Leveling ..... (3)
Mathematics 4, Calculus and Analytical Mechanics ..... (3)
Physics 6, Thermodynamics ..... (2)
Geology 2, Mineralogy ..... (3)
Chemistry 4, Quantitative Analysis ..... (3)
Geology 11, Ore Deposits ..... (1)
English 3A ..... ($1\frac{1}{2}$)

SENIOR YEAR

Chemistry 2, Technical Chemistry, Metallurgy ..... (3)
Geology 4, Economic Geology ..... (3)
Geology 6, Mine Examinations ..... (3)
Geology 12, Principles of Mining ..... (1)
Physics 10, Electric Machinery ..... (3)
Mathematics 7A, Hydraulics and Sanitary Engineering ..... (3)
Elective ..... (1)

V. SOIL INVESTIGATION

FRESHMAN YEAR

English 1 ..... (3)
Mathematics 1 ..... (4)
German 1 ..... (3)
Chemistry 1 ..... (3)
Drawing 1 ..... (2)

SOPHOMORE YEAR

English 2 ..... (3)
Mathematics 3 ..... (2)
Chemistry 3 ..... (2)
Geology 1 ..... (3)
Physics 1 ..... (3)
Drawing 2 ..... (2)

JUNIOR YEAR

Chemistry 4 ..... (3)
Geology 2 ..... (3)
Botany 1 ..... (3)
Chemistry 2 ..... (3)
English 3A ..... (1½)
French 1 ..... (3)

SENIOR YEAR

Geology 6 ..... (3)
Geology 7 ..... (3)
Geology 8 ..... (2)
Chemistry 8 ..... (5)
Soils of the United States ..... (1½)
Mapping ..... (2)

COURSES OF INSTRUCTION

Only those scientific and language courses which are specifically required in the School of Applied Science are repeated here. For complete description of other courses, see page 37.

DEPARTMENT OF CHEMISTRY

Professor HERTY and Mr. HILL.

1. General Descriptive Chemistry: a study of the elements and their compounds, including an introduction to Organic Chemistry; lectures with laboratory work. Required of Freshmen. *Both terms, three hours.*
   Laboratory fee, $1.25 a term.

Professor HERTY.

2. Technical Chemistry. (*a*) Industrial and Agricultural Chemistry: glass-making, acids, alkalies, phosphates, fertilizers, foods, clothing, hygiene, etc. (*b*) Metallurgy: mining, treatment of ores, smelting, chlorination, fuel, building materials, etc. Required of Juniors in Courses I and V., and of Seniors in Course IV.; prerequisite, Chemistry 1. *Both terms, three hours.*

Associate Professor HALL and Messrs. NASH and HUNTER.

3. Qualitative Analysis; laboratory work with lectures. May be taken with Chemistry 1. Required of Sophomores in Courses I., II., IV., and V. *Both terms, two hours.*
   Laboratory fee, $5.00 a term.

Associate Professor BELL.

4. Quantitative Analysis and Assaying; laboratory work, lectures, and stoichiometic exercises; a grounding in analytical methods. Required of Sophomores in Course I., and of

Juniors in Courses IV and V.; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*
Laboratory fee, $5.00 a term.

Associate Professor HALL.

5. Organic Chemistry. Required of Juniors in Course I.; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*
Laboratory fee, $4.00 a term.

5A. Organic Chemistry; special preparations. Required of Seniors in Course I. *Both terms, laboratory, two hours.*
Laboratory fee, $6.00 a term.

President VENABLE.

6. The History of Chemistry. Required of Seniors in Course I.; prerequisite, Chemistry 1, 3, 4, 5. *Spring term, two hours.*

Associate Professor BELL.

7. Elementary Physical Chemistry. Required of Juniors in Course I.; prerequisite, Chemistry 1, 3, and 4. *Both terms, three hours.*
Laboratory fee, $2.00 a term.

7A. Physical Chemistry; lectures and text-books, with laboratory work. Senior elective in Course I.; prerequisite, Chemistry 7. *Both terms, two hours.*

7B. Electro-Chemistry: theory and application of electricity to chemical processes. Senior elective in Course I.; prerequisite, Chemistry 1, 3, and 4. *Both terms, two hours.*

Professor HERTY.

8. Quantitative Analysis; laboratory work; gas analysis and extension of course 4 in technical lines; bacteriological examination of water (with Professor MacNider); research. Required of Seniors in Course I.; prerequisite, Chemistry 1, 3, and 4. *Both terms, five hours.*
Laboratory fee, $10.00 a term.

16. Inorganic Chemistry. A detailed study of the reactions of the elements and their compounds. Lectures and text-book. Required of Juniors in Course I ; prerequisite, Chemistry 1, 3, and 4. *Spring term, three hours.*

17. Quantitative Analysis. Laboratory work. Extension of course 4 in technical lines. Required of Juniors in Course I.; prerequisite, Chemistry 1, 3, and 4. *Both terms, three hours.*

Laboratory fee, $5,00 a term.

The Journal Club meets fortnightly. The current journals, American, English, German and French, both the purely scientific and the technical, are reviewed by the students and instructors. Attendance is expected of students in all courses except 1 and 3.

DEPARTMENT OF ENGLISH

Professor Mims, Associate Professor Booker and Mr. Sneath.

1. Types of literature: the short story, the novel, the essay; the lyric, the epic, the ballad, and the drama. Practical rhetoric and theme writing during the second term. This course lays the foundation for the student's later studies in both literature and composition. Required of Freshmen. *Both terms, three hours.*

Professor Royster, Associate Professor Booker and Mr. Sneath.

2. First term: Rhetoric and Composition; preparation and criticism of daily and weekly themes. Second term: History of English Literature. Reports on assigned readings. Required of Sophomores. *Both terms, three hours.*

Professor Graham.

3A. Composition: a practical course in expository writing designed to teach clearness and good construction. Lectures and theses. Required of Juniors in Courses III., IIIA., IV., V. *Fall term, three hours.*

DEPARTMENT OF GEOLOGY AND MINERALOGY

Professor COBB and Mr. VOGLER.

1. Elementary Geology; lectures with field work; laboratory work on the common minerals and rocks. Required of Sophomores in Courses IV and V., and of Juniors in Course I. *Both terms, three hours.*
   Laboratory fee, $3 00 for the spring term.

Mr. FRY.

2. Mineralogy: lectures with laboratory and field work; Crosby's *Tables* and Dana's *Text-book of Mineralogy*. Required of Juniors in Courses IV and V., and of Seniors in Course I. *Both terms, three hours.*
   Laboratory fee, $5.00 a term.

4. Economic Geology: ore deposits and economic minerals; lectures with laboratory and field work. Required of Seniors in Course IV.; prerequisite, Geology 1 and Chemistry 1 and 3. *Both terms, three hours.*

Professor COBB.

6. Advanced field work and special research in Geology or Geography; problems and work adapted to the professional needs of the student. Students in this course are expected to keep Saturday open for field work. Required of Seniors in Courses IV and V.; prerequisite, two courses in Geology. *Both terms, three hours.*

8. Origin and Nature of Soils; field work, laboratory, and theses. Students in this course are expected to keep Saturday open for field work. Required of Seniors in Course V. *Both terms, two hours.*
   Laboratory fee, $2.00 a term.

8A. Soils and Stones for Road Making. Field work, laboratory work. Required of Juniors in Courses III. and IIIA.; prerequisite, Geology 1. *Both terms, one hour.*
   Laboratory fee, $1.00 a term.

Professor PRATT.

11. Mineral and Ore Deposits; lectures supplemented by laboratory and field work. Required of Juniors in Course IV. *Twenty-four lectures (spring term).*

12. Principles and Practice in General Mining; lectures supplemented by visits to different mining regions. Required of Seniors in Course IV.

The Geological Seminary meets fortnightly for review and discussion of current geological literature, and for the presentation of original papers.

Course in Soil Investigation

Professor COBB and Mr. HEARNE.

1. Agricultural Soils: an elementary course covering the nature, origin, and classification of soils, based on G. P. Merrill's *Rocks, Rock Weathering and Soils*, F. H. King's *The Soil*, and reports and bulletins of the Bureau of Soils, U. S. Department of Agriculture; lectures, reading, and field and laboratory work. Open to Juniors and Seniors. *Fall term, three hours.*

2. Soils of the United States: an introductory study of the chief soil provinces, soil series, and soil areas of the United States, with special reference to the soils of North Carolina. Required of Seniors in Course V. *Spring term, two hours.*

3. Soil Mapping: preparation of large scale soil maps of the Chapel Hill region. Required of Seniors in Course V. *Both terms, two hours.*

4. Soil Seminary: study of soil literature with preparation of reports on selected subjects. Open to students engaged in soil work. *One evening each week during February and March.*

DEPARTMENT OF GERMANIC LANGUAGES

Professor VILES, Associate Professor COBB, and Mr. HOGUE.

A. Elementary Course; grammar; written and oral exercises;

translation; sight reading. This course may be counted for entrance only. *Both terms, three hours.*

Professor VILES and Associate Professor COBB.

1. Translation, sight reading, composition, grammar. Required of Freshmen in Courses I, IV and V.; elective in Courses II, III and IIIA. *Both terms, three hours.*

DEPARTMENT OF MATHEMATICS

Professor CLEMENTS and Messrs. HICKERSON, COSTNER and EAGLES.

1. Algebra, from Quadratics through Theory of Equations (Fine's *College Algebra*); Plane and Spherical Trigonometry and Logarithms. Required of Freshmen. *Both terms, four hours.*

Professors CAIN and CLEMENTS.

2. Co-ordinate Geometry (Fine and Thompson); Elementary course in Differential and Integral Calculus (Cain's *Brief Course in the Calculus*). Required of Sophomores. *Both terms, three hours.*

Professor STACY and Associate Professor MITCHELL.

3. (*a*) Surveying (Raymond), and (*b*) Higher Surveying. Required of Sophomores in Courses III., IIIA and V., and of Juniors in Courses II and IV. *Both terms, three hours.*

Professor CLEMENTS.

3A. (*a*) Higher Algebra. (*b*) Elementary Mechanics (Loney). Course 3A (*b*) is required of Sophomores in Courses III and IIIA. *Both terms, three hours.*

Associate Professor MITCHELL.

3B. Graphics: Descriptive Geometry (Church); Shades, Shadows, and Perspective (Mitchell). Required of Juniors in Courses II and III. *Both terms, three hours.*

Professor CAIN.

4. Calculus, Analytic Mechanics. Required of Juniors in Courses II, III, IIIA and IV.; prerequisite, Mathematics 2. *Both terms, three hours.*

Professor CLEMENTS.

5. Theory of Equations (Burnside and Panton). Prerequisite, Mathematics 2. *Both terms, three hours.*

6. Differential Equations (Murray). Prerequisite, Mathematics 4. *Both terms, three hours.*

Professor STACY.

7. Railroad Surveying and Railroad Engineering. Required of Juniors in Courses III and IIIA.; prerequisite, Mathematics 3. *Both terms, three hours.*

7A. Hydraulics and Sanitary Engineering. Required of Seniors in Courses III and IV.; prerequisite, Mathematics 4. *Both terms, three hours.*

Professor CAIN.

8. Mechanics of Materials. Required of Seniors in Course III.; prerequisite, Mathematics 4. *Both terms, three hours.*

Associate Professor HICKERSON.

10. Theory of Structures. Required of Seniors in Course III.; prerequisite, Mathematics 4. *Both terms, four hours.*

Professor CAIN.

11A. Retaining Walls and Dams. Required of Juniors in Course III.; prerequisite, Mathematics 2. *Both terms, one hour.*

11B. Arches. Senior elective. Prerequisite, Mathematics 4. *Both terms, one hour.*

Mr. HICKERSON.

13. Design of Structures. Required of Seniors in Course III.;

may be taken in connection with Mathematics 8 and 10. *Both terms, three hours.*

Professor STACY.

14. Brief Course in Strength of Materials and Stresses and Trusses. Required of Juniors in Course IIIA.; prerequisite, Mathematics 4. *Both terms, two hours.*

Associate Professor HICKERSON.

16. Road Construction and Drainage; Road Location. Required of Juniors in Courses III and IIIA. *Both terms, two hours.*

Drawing

1. Freehand and Mechanical Drawing. (*a*) Freehand drawing: sketching from dictation, sketching of geometrical figures, sketching from flat copy from models; application of rules of perspective and light and shade. (*b*) Lettering: freehand and mechanical lettering. (*c*) Mechanical drafting: the use of instruments; geometrical drafting; orthographic projection; elementary working drawings. Text-books: Anthony's *Mechanical Drawing*, Reinhardt's *Free Lettering*. Required of Freshmen. *Both terms, two hours.*

2. Mechanical and Topographical Drawing: (*a*) Mechanism and valve-gears, including the design of cams, gear-teeth, slide valves, etc; dimensioned working drawings of machines from measurements. (*b*) Topography: topographical symbols, map drawing in pen and ink and in colors. Text-books: Spooner's *Machine Drawing and Design* and Daniel's *Topographical Drawing*. Required of Sophomores in Course V and of Juniors in Courses II, III, and IIIA. *Both terms, two hours.*

2A. Mechanical Drawing: working drawings; tracings; blueprints; structural work; teaching systems of dimensioning, conventional representations. Topographical drawing; conventional signs and plotting. Text-books: Anthony's

Machine Drawing, Daniel's *Topographical Drawing*. Required of Sophomores in Courses I, III, and IIIA. *Both terms, two hours.*

3. Mechanical Drawing: machine drafting, work drawings; tracing and blue prints of machine details; assembly drawing; machine design; complete shop and erection drawing with bill of material, in accordance with modern drafting room systems and standards. Required of Seniors in Course II.; prerequisite, Drawing 1 and 2. *Both terms, two hours.*

DEPARTMENT OF PHYSICS

Professor PATTERSON.

1. General Physics: lectures, with text-book; problems; laboratory work. Required of Sophomores; prerequisite, Mathematics 1. *Both terms, three hours.*
   Laboratory fee, $1.25 a term.

4. Study of Electricity and Magnetism, with laboratory work; Franklin and MacNutt's *Electricity and Magnetism*. Required of Sophomores in Course II. *Both terms, two hours.*
   Laboratory fee, $2.00 a term.

6. Advanced Heat and Thermodynamics. This study is based on Edser's *Heat for Advanced Students*, Ewing's *The Steam Engine and Other Heat Engines*, and Peabody's *Thermodynamics of the Steam Engine*. Required of Juniors in Courses II and IV., and of Seniors in Course I.; prerequisite, Physics 1. *Both terms, two hours.*

Associate Professor DAGGETT.

10. The Elements of Electrical Engineering: an introductory course in the theory and practical operation of direct and alternating current machines and apparatus. Laboratory work one afternoon a week. Required of Juniors in Course II, and of Seniors in Courses I, III, and IV; prerequisite, a

grade of 80 on spring term of physics 1. *Both terms, three hours.*

Laboratory fee, $2.00 a term.

11. Alternating Currents and Alternating Current Machinery. Lectures and problem work; testing and study of alternating current machines in the laboratory. Required of Seniors in Course II; prerequisite, Physics 10 and Mathematics 4. *Both terms, four hours.*

Laboratory fee, $2.50 a term.

12A. Illuminating Engineering: theoretical and practical study of modern light sources, both gas and electric. Required of Seniors in Course II; prerequisite, Physics 10. *Fall term, two hours.*

12B. Electric Power Transmission: a study of the theory, construction, and operation of modern low and high tension circuits for the transmission of power. Required of Seniors in Course II; prerequisite, fall term of Physics 11. *Spring term, two hours.*

13B. Electric Design: fundamental principles of the design of electrical machinery. Lectures, calculations, preparation of drawings and specifications. Required of Seniors in Course II; prerequisite, Physics 11 and 14, which may be taken in the same year with 13B. *Spring term, two hours.*

14. Electrical Engineering Laboratory: calibration of instruments; testing of electric lamps and storage batteries; dielectric tests; dynamo and motor characteristics; regulation; efficiency; heating. Required of Seniors in Course II.; prerequisite, Physics 10. *Both terms, three hours.*

Laboratory fee, $5.00 a term.

15. Steam Engineering: boilers, furnaces, steam pumps and other boiler room accessories; steam engines, valves and valve gears; steam turbines, gas and oil engines, gas producers. Lectures, problems and laboratory work in the

University Power Station. Required of Juniors in Course II.; prerequisite, Drawing 1 and Physics 1. *Both terms, two hours.*

Laboratory fee, $2.50 a term.

DEPARTMENT OF ROMANCE LANGUAGES

Professor Dey, Associate Professor Towles, and Mr. Ware.

A. Elementary Course: grammar; pronunciation taught by the phonetic method; oral and written exercises; translation and reading at sight. This course may be counted for entrance only. *Both terms, three hours.*

1. Continuation of Course A. Grammar; composition; reading of modern French literature. Freshman elective in Courses III and IIIA. *Both terms, three hours.*

THE GRADUATE SCHOOL

COMMITTEE

FRANCIS PRESTON VENABLE, PH. D., LL. D., PRESIDENT.

CHARLES LEE RAPER, PH. D., DEAN.

EDWARD KIDDER GRAHAM, A. M.

GEORGE HOWE, PH. D.

FACULTY

*WALTER DALLAM TOY, M. A., *Professor of the Germanic Languages and Literatures.*

WILLIAM CAIN, C. E., *Professor of Mathematics.*

HENRY HORACE WILLIAMS, A. M., B. D., *Professor of Philosophy.*

HENRY VAN PETERS WILSON, PH. D., *Professor of Zoology.*

COLLIER COBB, A. M., *Professor of Geology and Mineralogy.*

MARCUS CICERO STEPHENS NOBLE, *Professor of Pedagogy.*

GEORGE HOWE, PH. D., *Professor of the Latin Language and Literature.*

CHARLES HOLMES HERTY, PH. D., *Professor of General and Industrial Chemistry.*

CHARLES LEE RAPER, PH. D., *Professor of Economics.*

WILLIAM CHAMBERS COKER, PH. D.. *Professor of Botany.*

*ARCHIBALD HENDERSON, PH. D., *Professor of Pure Mathematics.*

JOSEPH GREGOIRE DEROULHAC HAMILTON, PH. D., *Alumni Professor of History.*

ANDREW HENRY PATTERSON, A. M., *Professor of Physics.*

HENRY MCGILBERT WAGSTAFF, PH. D., *Professor of History.*

EDWIN MIMS, PH. D., *Professor of English.*

WILLIAM MORTON DEY, PH. D., *Professor of the Romance Languages and Literatures.*

*Absent on leave, 1910-1911.

MARVIN HENDRIX STACY, A. M., *Professor of Civil Engineering.*
JAMES FINCH ROYSTER, PH. D., *Professor of English.*
CHARLES WESLEY BAIN, A. M., *Professor of Greek.*
HARRY WOODBURN CHASE, PH. D., *Professor of the Philosophy of Education.*
GEORGE BURRIDGE VILES, PH. D., *Professor of the Germanic Languages and Literatures.*
GUY ROGER CLEMENTS, A. M., *Professor of Pure Mathematics.*
*ALVIN SAWYER WHEELER, PH. D., *Associate Professor of Organic Chemistry.*
THOMAS JAMES WILSON, JR., PH. D., *Associate Professor of Latin.*
WILLIAM STANLY BERNARD, A. M., *Associate Professor of Greek.*
PALMER COBB, PH. D., *Associate Professor of German.*
GEORGE WESTON MITCHELL, *Associate Professor of Drawing.*
OLIVER TOWLES, A. B., *Associate Professor of the Romance Languages.*
THOMAS FELIX HICKERSON, A. M., *Associate Professor of Mathematics.*
PARKER HAYWARD DAGGETT, S. B., *Associate Professor of Electrical Engineering.*
ROBERT ANDERSON HALL, PH. D., *Associate Professor of Organic Chemistry.*
JAMES MUNSIE BELL, PH. D., *Associate Professor of Physical Chemistry.*
WILLIAM HENRY FRY, A. B., *Instructor in Geology.*

CANDIDATES FOR GRADUATE WORK

Graduates of the University of North Carolina and of other universities and colleges of good standing are, upon application to the President or Dean, ordinarily admitted to advanced courses of instruction free of charge for tuition. There is, however, a registration fee of twelve dollars and a half for each term. An applicant for admission, unless a graduate of the University of North Carolina, is required to present his diploma and a certificate

*Absent on leave, 1910-1911.

of scholarship and character. If in any department the preliminary training of candidates has not been sufficient to qualify them for strictly graduate work, they will be required to take such undergraduate courses as may be prescribed by the head of the department; but these courses will not be counted for hours in work leading to a graduate degree.

Students who are not graduates may, if they prove themselves qualified, take graduate courses; but no graduate degree will be given to a student who does not already hold a Bachelor's degree from some institution of approved standing.

All courses must be approved by the President or Dean.

DEGREES

The University offers to graduate students advanced work leading to degrees of Master of Arts (A. M.), Master of Science (S. M.), and Doctor of Philosophy (Ph.D.)

MASTER OF ARTS

Candidates for the degree of Master of Arts must complete satisfactorily one year of study consisting of at least fifteen hours a week of recitations or lectures, eight hours of which must be taken from courses in the Graduate Department, the remaining seven from courses in the Graduate Department or from undergraduate courses open only to Juniors and Seniors. The candidate shall select one major subject and two minor subjects. The course as a whole must have unity and must be pursued with definite aim.

A thesis based on the major subject of study and showing capacity for original research must be submitted on or before May 1 of the given year, and must be filed in typewritten form on or before May 15.

MASTER OF SCIENCE

The degree of Master of Science is conferred in the School of Applied Science under conditions similar to those stated above for the degree of Master of Arts.

DOCTOR OF PHILOSOPHY

A candidate for the degree of Doctor of Philosophy is required to pursue, in residence at the University, a prescribed course of advanced study and research in one major subject and two allied minor subjects. In general a term of three years is required, but the degree may be secured in two years in the case of exceptional preliminary training in the major subject.

These requirements of residence and study are, however, entirely secondary. The degree is conferred not simply for faithful study in a determinate field of work for a prescribed period, but because of a high attainment in a special branch of learning, which the candidate must have manifested not only in examination, but by a thesis which gives evidence of independent research and contributes to knowledge. The candidate should choose his major subject in a department in which he has already pursued, for a considerable period, a systematic course of study. To receive this degree, a knowledge of French and German will be found indispensable in most instances. The thesis must be accepted before the candidate may be admitted to examination. The examinations are both written and oral. They demand a minute knowledge of a special field of work as well as as a general acquaintance with the department of learning in which the candidate offers himself for the degree.

COURSES OF INSTRUCTION

DEPARTMENT OF BOTANY

Professor Coker.

2. Physiology: a general course in plant physiology; lectures with laboratory and field experiments. Open to Juniors and Seniors. *Both terms, three hours.*

3. Special Morphology of the Algae and Fungi, with attention to the culture of lower fungi, and the identification of mushrooms; lectures with laboratory and field work. Open to Juniors and Seniors. *Both terms, three hours.*

4. Plant Morphology: advanced work in the embryology and anatomy of plants. The student is required to collect and prepare material for the microscopic study of special problems. Theses. *Both terms, five hours or more.*

DEPARTMENT OF CHEMISTRY

Professor Herty.

11. Research in Inorganic, Analytical, and Industrial Chemistry. This course (with 12 and 13) is intended only for applicants for the degree of Doctor of Philosophy or properly equipped students who desire special training in advanced chemical research. It requires, in addition to the laboratory work, daily conference with the professor and continual reference to the literature touching the matter under investigation. The work is usually assigned by the professor, but by special permission the student may elect to work upon problems to which he wishes to give particular attention. *Both terms, six hours.*

Laboratory fee, $12.50 a term.

Associate Professor HALL.

12. Research in Organic Chemistry. The statements made in regard to course 11 apply also to this course. *Both terms, six hours.*

Laboratory fee, $12.50 a term.

Associate Professor BELL.

13. Research in Physical Chemistry. *Both terms, six hours.*

Laboratory fee, $12.50 a term.

Professor HERTY.

14. Advanced Inorganic Chemistry. The elements are studied with the idea of showing the fundamental laws of Chemistry and the deep-seated relations involved in and leading up to the Periodic System. Attention is also given to those portions of Inorganic Chemistry not usually dwelt upon in the regular courses. The applications of physico-chemical laws and generalizations are emphasized throughout the course. *Both terms, two hours.*

Associate Professor HALL.

15. Advanced Organic Chemistry. The most important modern investigations are reviewed and, in addition, special consideration is given to Class Reactions with reference to their application to organic research. *Both terms, two hours.*

The *Journal Club* meets fortnightly. The current journals, American, English, German, and French, purely scientific and technical, are reviewed by the students and instructors. Attendance upon the meetings of the Club is expected of all students taking the above courses.

DEPARTMENT OF ECONOMICS

Professor RAPER.

2. Public Finance: a general study of the principles which are involved in the revenues and expenditures of the State, and of the relation of the State to the industries of its citizens;

a special study of taxation and the tariff. Lectures, readings, and reports. Adams's *The Science of Finance*. Open to Seniors. *Both terms, two hours.*

Given in alternate years; to be omitted in 1911-1912.

3. Economic Institutions and Thought in England and the United States; a general study, largely from the historical point of view, of the economic institutions and the systems of economic thought in England and the United States; a special study of socialism. Lectures, readings, and reports. Cheyney's *Industrial and Social History of England*, Brooks's *The Social Unrest*, Spargo's *Socialism*, and the *Communist Manifesto* (Marx and Engels). Open to Seniors. *Both terms, two hours.*

DEPARTMENT OF EDUCATION

Professor CHASE.

10. Child Study. The development of the child from birth to adolescence and the significance of child study for education. Lectures, readings, text. Open also to Seniors; prerequisite, Education 1 and 2, or 3, or 7, or an equivalent. *Fall term, two hours.*

11. Adolescence. A continuation of the preceding course, dealing with the adolescent changes and their significance. Lectures and text. Open also to Seniors; prerequisite, Education 10. *Spring term, two hours.*

12. The Philosophy of Education. A discussion of the underlying principles shaping educational systems, past and present. Seminar course. Readings, theses, discussions. *Both terms, two hours.*

Professors NOBLE and CHASE.

13. American Education. A study of the development of school systems in the United States, with a comparative study of the principal European systems. Research and lectures. *Both terms, two hours.*

DEPARTMENT OF ENGLISH

Candidates for the degree of Doctor of Philosophy who elect advanced work in the English language as their major subject will be expected to take one or more courses in other Germanic languages. All graduate work in the English languages presupposes English 6, or its equivalent, and a reading knowledge of German; but, in exceptional cases, English 6 and German A may be taken along with the English graduate courses.

Associate Professor ROYSTER.

6. Introductory Course in Old and Middle English. In the first term a careful study is made of Old English grammar and syntax; a large amount of easy Old English prose is read. Text: Bright's *Anglo-Saxon Reader*. In the second term the grammatical work and the reading are carried on into the Middle English period, with special attention to Chaucer. Texts: Greenough's *Selections From Chaucer*; Emerson's *Middle English Reader*. The primary aim of the whole course is to acquaint the student with the main facts of the beginning and development of the English language. The language of the older periods is considered in its relations to present day English; many points of confusion in modern English, unexplained by the rules of logical grammar, are made clear. Open to Juniors and Seniors. *Both terms, three hours.*

   The attention of students electing this course is called to Course 13 in the Latin Department.

7. Advanced Course in Old English and Middle English. The work of the first term continues the study of Old English grammar, particularly in its relations to that of the other Indo-European languages, and takes up the reading of Old English poetry. Texts: Wyatt's *Beowulf*; Blackburn's *Exodus and Daniel*. A study of Chaucer's minor poems will be the basis of the work of the second term, 1911. Prerequisite, English 6, or its equivalent. Open to Seniors. *Both terms, two hours.*

8. An Introduction to the Study of the Science of Language. The student will be shown the aims and methods of modern philological study, the larger results of linguistic science, and the relation of these to the general history of civilization. No special linguistic training is necessary for entrance. Open to Juniors and Seniors. *Both terms, two hours.*

Professor Mims.

11. Seventeenth Century Literature. In the main, a comprehensive study of the writings of John Milton, considered in relation to the literature and the history of the Civil War. Open to Seniors. *Both terms, two hours.*
This course alternates with Course 12.

12. Eighteenth Century Literature. A study of the development of English prose, of the poetry of the Classical School, and of the beginnings of the Romantic Movement. Open to Seniors. *Both terms, two hours.*
This course alternates with course 11; to be omitted in 1911-1912.

DEPARTMENT OF GEOLOGY

Mr. Fry.

5. Petrography; lectures, laboratory work, and theses. Open to Juniors and Seniors. *Both terms, three hours.*
Laboratory fee, $2.00 a term.

Professor Cobb.

6. Advanced field work and special research in geology and geography; problems assigned individually and work adapted to the professional needs of the student. Students in this course are expected to keep Saturday open for field work. Open to Seniors. *Both terms, three hours.*

9. Research course in historical geology. *Both terms, three hours.*

DEPARTMENT OF GERMANIC LANGUAGES

Professor Viles.

3. History of German Literature; lectures with parallel reading

and written reports. Prerequisite, German 2A or 2B. Open to Juniors and Seniors. *Both terms, three hours.*

Associate Professor COBB.

4. Middle High German: Paul's *Mittelhochdeutsche Grammatik;* Bachmann's *Mittelhochdeutsches Lesebuch;* translation into New High German. Open to Juniors and Seniors. *Both terms, three hours.*

This course alternates with course 5.

5. Old High German: Braune's *Althochdeutsche Grammatik;* Braune's *Althochdeutsches Lesebuch.* Open to Juniors and Seniors. *Both terms, two hours.*

This course alternates with course 4; to be omitted in 1911-1912.

Professor VILES.

6. Gothic: Braune's *Gotische Grammatik;* selected parts of Paul's *Grundriss der Germanischen Philologie.* This course is intended to lay the foundation for the philological study of the Germanic dialects. Open to Juniors and Seniors. *Both terms, three hours.*

7. Goethe: Goetz von Berlichingen, Tasso, Dichtung and Wahrheit, Hermann and Dorothea, Faust. In connection with the interpretation of the texts, the life of Goethe will be studied. Selected chapters of Hermann Grimm's *Vorlesungen*, Scherer's *History of German Literature*, Francke's *History of German Literature*, and Bielschowsky's *Goethe, Sein Leben und Seine Werke* will be read. Open to Juniors and Seniors. *Both terms, three hours.*

DEPARTMENT OF GREEK

Professor BAIN.

7. Greek Drama: Euripides, Iphigenia among the Taurians; Sophocles, Oedipus Tyrranus; Aeschylus, Agamemnon; Aristophanes, Clouds; Aristotle, Poetics. Open to Juniors and Seniors. *Both terms, three hours.*

8. Prose Composition, advanced course. *Fall term, two hours.*

11. Greek History: the selections from Greek historians in parts I. and II. of Baumeister's *Quellenbuch zur Alten Geschichte*. *Both terms, two hours.*

Associate Professor BERNARD.

12. Bucolic Poetry: the Idylls of Theocritus, Bion, and Moschus. *Both terms, two hours.*

Professor BAIN.

17. Greek Epigraphy and Palaeography: a brief introduction to to the study of Greek inscriptions and manuscripts. Lectures and reports. *Spring term, two hours.*

The attention of students electing this course is called to course 14 in the Latin Department.

18. Literature from the period of the battle of Argenusae to the Restoration of Democracy, including general principles of syntax, literary meter, dialects, history, politics, etc. *Both terms, three hours.*

DEPARTMENT OF HISTORY

Professor HAMILTON.

10. Civil War and Reconstruction: a detailed study of the consitutional, political, and economic phases of the period of the Civil War and Reconstruction; lectures, readings, and reports. Open to Seniors. *Both terms, two hours.*

Professor WAGSTAFF.

13. The American Constitution: research in the history of the Constitution of the United States. *Both terms, two hours.*

Professor HAMILTON.

14. American Politics: lectures and research in the history of political parties in the United States. *Both terms, two hours.*

DEPARTMENT OF LATIN

Professor Howe.

5. Pliny, selected letters; Juvenal, Satires; Martial, selected epigrams; reading with special reference to the private life of the Romans at the close of the first century A. D. Open to Juniors and Seniors. *Both terms, two hours.*

This course alternates with course 9; to be omitted in 1911-1912.

9. Roman elegiac poets: rapid reading of selected elegies of Catullus, Tibullus, Propertius, and Ovid; a study of the lives of the elegists; the history of Greek and Roman elegy. Open to Juniors and Seniors. *Both terms, two hours.*

This course alternates with course 5.

11. The study of a particular author or period in Roman literature; practice in rapid reading, with translation of the more difficult passages only. *Both terms, two hours.*

Associate Professor Wilson.

12. Lectures on comparative syntax of Greek and Latin; principles illustrated from Homer and Terence. *Both terms, two hours.*

Professor Howe.

14. Latin Epigraphy and Palaeography: a brief introduction to the study of Latin inscriptions and manuscripts. Lectures and reports. *Fall term, two hours.*

The attention of students electing this course is called to course 17 in the Department of Greek.

DEPARTMENT OF MATHEMATICS

Associate Professor Mitchell.

3C. Stereotomy. A course in the application of descriptive geometry to the making of drawings for masonry structures, such as intersecting arches and walls, abutments, piers and culverts. A study of warped surfaces and drawings for the

helicoidal arch. Open to Seniors. Prerequisite, Mathematics 3B. *Spring term, two hours.*

Professor CAIN.

4. Calculus, Analytic Mechanics. Open to Juniors and Seniors. Prerequisite, Mathematics 2. *Both terms, three hours.*

Professor CLEMENTS.

5. Theory of Equations (Burnside and Panton). Open to Juniors and Seniors. *Both terms, three hours.*

6. Differential Equations (Murray). Open to Seniors. *Both terms, three hours.*

Professor STACY.

7. Road and Railroad Surveying and Engineering. Open to Seniors. *Both terms, three hours.*

7A. Hydraulics and Sanitary Engineering. Open to Seniors. *Both terms, three hours.*

Professor CAIN.

8. Mechanics of Materials. Prerequisite, Mathematics 4. Open to Seniors. *Both terms, three hours.*

Associate Professor HICKERSON.

10. Theory of Structures. Prerequisite, Mathematics 4. Open to Seniors. *Both terms, four hours.*

Professor CAIN.

11A. Retaining Walls and Dams. Prerequisite, Mathematics 4. Open to Seniors. *Both terms, one hour.*

11B. Arches. Prerequisite, Mathematics 4. *Both terms, one hour.*

Associate Professor HICKERSON.

13. Design of Structures. May be taken in connection with Mathematics 8 and 10. *Both terms, three hours.*

Professor CAIN.

15. Advanced Differential and Integral Calculus; lectures. *Both terms, two hours.*

DEPARTMENT OF PHILOSOPHY

Professor WILLIAMS.

5. Epistemology: a study of the Critical Philosophy; lectures; theses. First term: Prolegomena and Practical Reason and the works that prepared the way for Kant. Second term: *Kritik der reinen Vernunft. Both terms, three hours.*

DEPARTMENT OF PHYSICS

Professor PATTERSON.

2. Modern Electrical Theory; the electron theory, electrolysis, conduction of electricity through gases, electric nature of matter, radioactivity. Prerequisite, Physics 1. Open to Juniors and Seniors. *Both terms, two hours.*

6. Advanced Heat and Thermodynamics. This study is based on Edser's *Heat for Advanced Students*, Ewing's *The Steam Engine and Other Heat Engines*, and Peabody's *Thermodynamics of the Steam Engine*. Prerequisite, Physics 1 and Mathematics 2. Open to Juniors and Seniors. *Both terms, two hours.*

Associate Professor Daggett.

11. Alternating Currents and Alternating Current Machinery: lectures and problem work; testing and study of alternating current machines in the laboratory. Prerequisite, Physics 10 and Mathematics 4. Open to Juniors and Seniors. *Both terms, four hours.*

Laboratory fee, $2.50 a term.

12B. Electric Power Transmission: a study of the theory, construction and operation of modern low and high tension circuits for the transmission of power. Prerequisite, fall term of Physics 11. Open to Seniors. *Spring term, two hours.*

13B. Electric Design: fundamental principles of electrical machinery. Lectures, calculations, preparation of drawings and specifications. Prerequisites, Physics 11 and 14, which may be taken in the same year with 13B. Open to Seniors. *Spring term, two hours.*

14. Electrical Engineering Laboratory: calibration of instruments, testing of electric lamps and storage batteries; dielectric tests; dynamo and motor characteristics; regulation; efficiency; heating. Prerequisite, Physics 10. Open to Seniors. *Both terms, three hours.*

Laboratory fee, $5.00 a term.

DEPARTMENT OF ROMANCE LANGUAGES

Associate Professor TOWLES.

3. French Literature. A general outline of its various periods. Lectures, reading, reports. Prerequisite French 2. Open to Juniors and Seniors. *Both terms, three hours.*

4A. French Literature in the Seventeenth Century. Lectures, reading, reports. Open to Juniors and Seniors. *Both terms, three hours.*

This course alternates with course 4B; to be omitted in 1911-1912.

Professor DEY.

4B. French Literature in the Eighteenth Century. Lectures, reading, reports. Open to Juniors and Seniors. *Both terms, three hours.*

This course alternates with course 4A.

5. French Literature in the Nineteenth Century. Lectures, reading, reports. Open to Juniors and Seniors. *Both terms, three hours.*

Associate Professor TOWLES.

6. Old French. Reading of the oldest texts: La Chanson de Roland: Aucassin et Nicolette; Chrétien de Troyes. Lectures on French Phonology and Morphology. Prerequisite,

French 2, a knowledge of Latin equivalent to courses 1 and 2 of the Latin Department, and a reading knowledge of German. *Both terms, two hours.*

Professor DEY.

7. Provençal. A study of the ancient language and literature of Provence. Prerequisite, course 6. *Both terms, two hours.*

DEPARTMENT OF ZOOLOGY

Professor WILSON.

2. Comparative Anatomy and Embryology of the Vertebrates; study of types of fishes, amphibia, reptiles, birds, mammals; development of the characteristic vertebrate organs in the frog and chick; fundamentals of microscopic technique; laboratory work with occasional lectures. Open to Juniors and Seniors. *Both terms, three hours.*

3. Comparative Anatomy and Embryology of the Invertebrates; dissection and microscopic study of the types of the chief orders, with some consideration of their embryology; laboratory work with occasional lectures. Open to Juniors and Seniors. *Both terms, three hours.*

4. Animal Morphology: advanced zoological work, with detailed study of problems in comparative anatomy or embryology; laboratory work with use of classical textbooks and original memoirs; theses. *Both terms, five hours or more.*

PART THREE

PECUNIARY AID AND EXPENSES
MEDALS AND PRIZES
REGULATIONS

PECUNIARY AID AND EXPENSES

Fellowships and Scholarships

THE TOCH FELLOWSHIP IN CHEMISTRY. (Established in 1905 by Mr. Maximilian Toch.) The holder is expected to devote himself to research work in technical chemistry. This fellowship yields $200 annually.

THE LIBRARY FELLOWSHIPS, two in number, established in 1907, yield each $150 annually. The holders are expected to assist in the Library.

THREE TEACHING FELLOWSHIPS, established in 1907, yield each $200 annually. The holders are expected to assist in the work of instruction in the departments to which the fellowships are assigned.

THE CAMERON SCHOLARSHIPS. (Established in 1892.) The heirs of Paul Carrington Cameron founded, in his memory, ten scholarships of the value of sixty dollars each.

THE DIALECTIC AND PHILANTHROPIC LITERARY SOCIETIES' SCHOLARSHIPS. (Established in 1893) The Dialectic and Philanthropic Literary Societies of the University founded two scholarships of the value of sixty dollars each, recipients of which shall give assistance in the library.

THE MOORE SCHOLARSHIPS. (Established in 1881.) Bartholomew Figures Moore, of Raleigh, bequeathed five thousand dollars, the interest of which shall be devoted to paying the tuition of students.

THE MARY ANN SMITH SCHOLARSHIPS. (Established in 1891.) Miss Mary Ann Smith bequeathed thirty-seven thousand dollars for the foundation of scholarships, the number of scholarships to be determined by the amount of the income.

THE MARY RUFFIN SMITH SCHOLARSHIPS. (Established in 1885.) Miss Mary Ruffin Smith bequeathed to the University, in memory of her brother, Dr. Francis Jones Smith, a valuable tract of land in Chatham county of fourteen hundred and sixty acres, known as Jones's Grove. The will provides that the rents of the land, or the interest on the purchase money, if sold, shall be used to pay the tuition of such poor students as the Faculty shall appoint.

THE SPEIGHT SCHOLARSHIPS. (Established in 1892.) The late Mrs. Mary Shepard Speight bequeathed ten thousand dollars to the University. The income shall be used to pay the tuition of needy students; but if tuition is ever made free, the income shall be used toward paying the salaries of the professors.

THE WOOD SCHOLARSHIP. (Established in 1892.) Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her late husband, Dr. Thomas Fanning Wood, a scholarship of the value of sixty dollars.

THE WEIL SCHOLARSHIP. (Established in 1898.) A fund established by Mr. Henry Weil, of Goldsboro, furnishes one scholarship of the value of sixty dollars.

THE ARMFIELD SCHOLARSHIPS. (Established in 1901 and 1904.) These scholarships are founded by the generosity of Mr. Eugene M. Armfield, of the class of 1888, High Point, N. C.

THE ALUMNI SCHOLARSHIPS. These scholarships have been established by the gifts of Alumni. A scholarship will be awarded for each one thousand dollars given.

THE KENNETH MURCHISON SCHOLARSHIPS. (Established in 1904.) These scholarships have been founded by Mrs. Shirley Carter, of Baltimore, Md., and Mrs. James Sprunt, of Wilmington, N. C., in memory of their father. They are awarded by the founders.

THE BABBITT SCHOLARSHIP. (Established in 1910.) This scholarship was founded by the Babbitt Corporation. It is awarded annually by Professor Horty to that member of the in-

coming Senior Class who has made the best record in the Department of Chemistry. The holder of this scholarship is required to investigate during the spring term some subject connected with the chemistry of the oleoresins. The scholarship yields annually $250.

None of these scholarships is open to students in the professional Schools of Law, Medicine, and Pharmacy.

All applications for scholarships must be filed in the President's office on or before August 15, and must be in the regular form prescribed by the University. Blank forms are supplied on application to the Registrar.

Free Tuition

By an act of the Legislature in 1887, free tuition is given to candidates for the ministry, to the sons of ministers, to young men under bodily infirmity, to teachers, and to young men preparing to teach. This enables the University to aid effectively the public school teachers of the State.

Loan Funds

The Deems Fund. (Established in 1879.) A fund of six hundred dollars was established by Rev. Charles Force Deems, D. D., late pastor of the Church of the Strangers, New York City, formerly a Professor in the University, in memory of his son, Lieutenant Theodore Disosway Deems. In 1881 the gift was greatly enlarged through the munificence of Mr. William H. Vanderbilt, by a gift of ten thousand dollars, "as an addition to the Deems fund, to be loaned to indigent students of the University."

The Martin Fund. This fund has been established by the bequest of Mr. Thomas D. Martin, of Raleigh. Only the interest of this fund can be used for loans. It became available during the session of 1907-1908.

All applications for loans must be filed in the President's office on or before August 15.

All applications for loans will not be considered unless accompanied by testimony from responsible persons as to poverty and merit. The funds are limited in amount and are loaned only on the security of two approved signatures and at the legal rate of interest.

Expenses

Every effort is made to reduce to the lowest point the necessary expenses of an education at the University. The charges for each of the two terms are as follows:

Tuition fee	$30.00
Fee for Matriculation*	12.50
Total	$42.50

Students taking courses in the laboratories are charged a small fee for materials. Every student must keep on deposit with the Bursar two dollars as security for damages. Willful damage to University property is charged to the perpetrator, if known; otherwise it is charged to the general deposit for damages. Any balance is returned to the student at the end of the year.

Excellent board is furnished at the University Inn for fifteen dollars a month. Good board also is furnished at Commons for ten dollars a month. A few students can earn their board at Commons by waiting on the tables. The entire annual expenses need not exceed three hundred dollars, and they may be reduced to two hundred dollars.

It is confidently believed that no institution offers wider opportunities for self-help to meritorious students of slender means. The desire is that no worthy boy, however poor, shall ever be turned away for lack of means. To such the University and town offer unusual opportunities for support. Many students are now working their way through college by every form of honorable labor. A number are here as a result of money earned or

*This fee includes also the gymnasium fee, the library fee, the fee for medical services.

borrowed. Seventy are aided by loans, and about five hundred have received aid from the University in loans and scholarships in the past twenty years. A few students are selected by the authorities as waiters at Commons. Otherwise all opportunities available in the University and town must be secured by the personal efforts of the individual, or with the assistance of the Faculty Committee on Self-Help. They are not assigned by the President.

Dormitory Accommodations

The University buildings contain unfurnished rooms, available for the accommodation of something over three hundred students. There is no charge for service in addition to the rent. All rooms are fitted with electric lights. Room rent ranges from 75 cents to $2.75 for each occupant, the price depending upon the location of the room.

All the buildings of the University are heated by hot water according to the most improved methods. In the dormitories the charge for light and heat will be $2.00 a month for each room.

MEDALS AND PRIZES

THE COLONIAL DAMES PRIZE. (Established in 1908.) The North Carolina Society of Colonial Dames offers annually a first prize of fifty dollars and a second prize of twenty-five dollars for the best essays on some subject connected with the Colonial Period in North Carolina.

THE LITERARY ESSAY MEDAL. (Established in 1890.) A gold medal is offered annually by Professor Thomas Hume to that member of the Senior Class who shall present the best essay or thesis on some distinctly literary subject.

THE MANGUM MEDAL IN ORATORY. (Established in 1878.) A gold medal founded by the Misses Mangum, late of Orange County, in memory of their father, Willie Person Mangum, is continued by his granddaughters, Mrs. Julian A. Turner, Mrs. Stephen B. Weeks, and Miss Preston Leach, and awarded to that member of the Senior Class who shall deliver the best oration at Commencement.

THE BINGHAM PRIZE IN DEBATE. (Established in 1899.) This prize is offered by Mr. R. W. Bingham in memory of his great-grandfather, grandfather, father, and brother. It is given annually for excellence in debate. The contestants are representatives of the Literary Societies, and the contest is held on Monday evening of Commencement week.

THE KERR PRIZE IN GEOLOGY AND MINERALOGY. (Established in 1889.) A prize of fifty dollars is offered annually by Mr. William H. Kerr in memory of his father, Professor Washington Caruthers Kerr, to any undergraduate or graduate student, for the best thesis containing original work in the geology or mineralogy of North Carolina.

The Eben Alexander Prize in Greek. (Established in 1887.) A prize of ten dollars is offered annually to that member of the Sophomore class, who shall present the best rendering into English of selected passages of Greek not previously read.

The Worth Prize in Philosophy. (Established in 1883.) Mr. Charles William Worth, in memory of his father, David Easton Worth, of the class of 1853, will print the best thesis submitted by a student in Philosophy 4.

The Early English Text Society Prize. (Established in 1886.) A special prize is offered annually by the Early English Text Society, of London, for advanced work in Anglo-Saxon and Middle English.

The Bryan Prize. (Established in 1903.) A prize will be given annually by Mr. William Jennings Bryan for the best thesis in Political Science.

The Hunter Lee Harris Memorial. (Established in 1903.) Dr. Charfes Wyche, of St. Louis, offers annually in memory of Hunter Lee Harris, of the class of 1893, a gold medal for the best original story by any student in the University.

The Thomas Hume Prize. (Established in 1904.) A prize of fifty dollars is offered annually by Mr. W. G. Peckham, of New York, for the best work in the Old English Ballads and Shakspere or Milton.

The William Cain Prize in Mathematics. (Established in 1908.) A gold medal is offered annually by Professor William Cain to that student who shall take the highest rank in Mathematics 4. No student will be recommended for the prize unless he attain to grade 2.

The Preston Cup, given by the Hon. E. R. Preston in memory of his brother, Ben Smith Preston, will be awarded annually to the undergraduate student who during the months September to April has done the best work of a journalistic nature.

Certain prizes are offered also in the Professional Schools of Law, Medicine, and Pharmacy. For these, see under the several schools.

REGULATIONS

Registration

All students are expected to present themselves for registration on *Monday*, *Tuesday*, or *Wednesday*, *September 11*, *12*, or *13*, *1911*, and *Tuesday* or *Wednesday*, *January 2* or *3*, *1912*, between the hours of 9 A. M. and 4 P. M., at the office of the Registrar.

Arrangement of Courses

Every student, when he presents himself for registration, must submit a list of courses, required and elective, which he desires to pursue.

No student will be allowed to take less than 15 hours nor more than 18 hours of class-room work a week without special permission of the Faculty or of the President.

Students desiring to change their courses must make written application to the President for the desired change. The application will be considered by the President and the instructors in the departments concerned and will be granted only after a careful consideration of the facts in each case. No changes will be permitted after the first Tuesday following the registration days except such as are granted after application to, and approval by, the Faculty.

Candidates for more than one degree shall not offer the same elective in two courses nor a required study in one course as an elective in another.

Assignment of Rooms

The University buildings contain two hundred and four unfurnished double rooms, available for the accommodation of students. These rooms are assigned to students by the Bursar, at the beginning of each term, in the order of application.

The President reserves the right to require any student whom for any reason he considers an undesirable tenant to vacate a room in the University buildings.

All occupants are required to sign a contract subject to the following special rules:

1. In order to retain his room for the next session, a student must notify the Bursar in writing before *May 20*.

2. The room thus signed for will be retained until the *15th day of August*, provided a deposit of $10 be made with the Bursar on or before that date. This deposit will be forfeited in case the room so retained is not rented for the first term. In order to have a room reserved beyond the above date, the rent for the first term must be paid. Double rooms signed for by only one person will not be retained after that date unless the full rent has been paid. No one signing for a room can transfer the same.

3. Rooms not signed for or forfeited by failure to pay at the proper date will be assigned in the order of application.

4. No dogs shall be kept in the University dormitories. Breach of this regulation leads to forfeiture of the room.

Conduct

By order of the Board of Trustees the Faculty is directed to dismiss from the University any student who is known to engage in drinking intoxicating liquors, gambling, hazing in any form, or to be guilty of dissolute conduct.

Students persistently neglectful of duty, or addicted to boisterous conduct or rowdyism, may be requested to leave the University.

Attendance

Regular attendance upon lectures and recitations is required of all students.

In any term, absences are counted from the first regular meeting of each class. In no case will a student be considered present at any class until he has been registered as a member of that class. No student will be allowed more than five unexcused

absences during a month. When this number is exceeded he will be placed on probation, and notified that any further unexcused absences on his part during the next month may necessitate his withdrawal from college. This notice will be sent to his parents or guardian also.

Any student whose absences from a class during any month equal the number of scheduled meetings of the class for one week is required to stand a special examination on that month's work, within the first two weeks of the succeeding month at an hour to be announced by the instructor. In the case of those whose absences in a given month reach the number indicated above, and who fail to stand the examination provided for such absences, it is left to the discretion of the instructor to retain them in his class.

Students who are absent from a class during the months of December, January, or May as much as 25 per cent. of the scheduled meetings of the class must stand an examination for these months before being entitled to any grade on the term examination. This special examination is to be held in connection with the regular term examinations, or at some time during the examination period.

Students who are absent during any term as much as 33⅓ per cent. of the scheduled meetings of the class, except in case of prolonged sickness necessitating at least half the absences, may at the discretion of the instructor be debarred from the term examination.

Attendance at Chapel is compulsory for all students in the University except for members of the professional departments and for such others as are specially excused. Absence from Chapel will subject the student to discipline by the Executive.

No student is allowed to absent himself from the University without written permission from the President or his representative. This permission may, at the discretion of the executive officer, be granted only upon the formal request of the parent or guardian.

Examinations

Regular examinations on all subjects are held at the close of each term. Excuses from examinations are granted only in case of absolute necessity. Such an excuse, to be valid, must be obtained from the President by the day of examination, and communicated officially to the instructor holding the examination.

Freshmen, Sophomores, and Juniors who have been excused from an examination or have received the grade 5 (see page 118) in any subject will be given two and only two opportunities to make good the Fall term of a subject may make good the deficiency either in the following September, according to the schedule given below, or at the regular examination of the next lower class in January. Those conditioned on the Spring term of a subject may make good the deficiency either in the following September, according to the schedule given below, or at the regular examination of the next lower class in May. In case a student fails in both of the special examinations, he must repeat the subject with the class of the succeeding year. If the unremoved condition be in an elective subject not offered for the succeeding year, the student must take another elective valued at the same number of hours.

Seniors who have been excused from an examination or have received the grade 5 in any subject at either the Fall or Spring examination will be given but one opportunity to make good the deficiency by special examination, viz., during the regular examination period of the three lower classes in May.

Papers handed in at special examinations by students who have been officially excused from the regular examination will be graded. All others will be marked either "passed" or "failed." Students who hand in papers at regular examinations are considered to have relinquished any claim to grades on special examinations.

Students who absent themselves from regular examinations without having obtained an official excuse, and those who are present at the regular examinations but do not hand in papers, are given the grade 6 (see page 118.) They are required to repeat

the subject with the next lower class, or, in case of an elective not offered in the succeeding year, to take another elective valued at the same number of hours.

A student wishing a special examination in any subject must deposit an application in the office of the Registrar at least one week before the beginning of the period of regular examinations.

Each student is required to subscribe his name to the following pledge on every paper: I hereby certify that during this examination I have neither given nor received aid. No paper without the pledge will be read.

The order of examinations for the removal of conditions in September, 1911, will be as follows:

Wednesday, September 6.

10 A. M.	Latin.	2:30 P. M.	Geology.
	Philosophy.		Pedagogy.

Thursday, September 7.

10 A. M.	Physics.	2:30 P. M.	Chemistry.
	Greek.		History.
			Economics.

Friday, September 8.

10 A. M.	English.	2:30 P. M.	Zoology.
			Botany.

Saturday, September 9.

10 A. M.	German.	2:30 P. M.	Mathematics.
	French.		

Standing

Semi-annual reports of the standing of all students in all the studies of the previous term are sent to parents or guardians. The reports are based upon the following system of marking:—

Grade 1, 95-100 per cent.
Grade 2, 90-95 per cent.
Grade 3, 80-90 per cent.
Grade 4, 70-80 per cent.
Grade 5, 60-70 per cent.
Grade 6, below 60 per cent.

Students must attain a grade of 4 to pass in any study. Grade 5 indicates that the student is conditioned, but may remove the deficiency by special examination, as explained on page 117. Students receiving grade 6 in any study must take such study again with the next lower class, or in case of an elective not offered in the succeeding years, must take another elective valued at the same number of hours.

A student who has failed to pass all the examinations of the year in any College study may not take a higher class in that department, until he makes good his deficiency.

A student who, at the close of the period of special examinations in September, is deficient by an amount equal to eight hours of class-room work for a year will be ranked with the next lower class.

In addition to the semi-annual reports, there are sent out during the session six monthly reports in which the standing of students is indicated in a general way.

Certificates

A certificate is granted to a student who has completed with credit, in any department except those of Mathematics, Chemistry, Physics, and Geology, all work required for a degree together with elective work in the same department. (For detailed statement of requirements, see under the several departments of instruction.)

Graduation

Each Senior will be officially informed by the Registrar in August of all deficiencies standing against him.

Every member of the Senior Class is required to write a thesis or an oration for graduation. Those electing theses must announce their subjects by November 1 to the Dean of the Faculty, who will report them to the professors in the departments concerned. On May 1 the theses shall be read before the professors, subject to criticism and correction. The corrected and approved theses must be handed to the Registrar in typewritten form on or before May 15.

The number of orations is limited to four. The candidates must be members of the College or the School of Applied Science, and must announce their subjects to the Dean of the Faculty by February 1. The orations shall be delivered in private before a committee of the Faculty on May 1, who shall decide upon the relative merits of the orations. The four successful candidates are known as the Commencement Orators of the Senior Class.

Athletic and Other Organizations

No student will be allowed to take part in athletic contests, concerts, debates, etc., entailing absence from the University, whose parent or guardian objects to such participation.

A student who was in attendance upon the University during a previous term or session must have passed satisfactory examinations upon at least eight hours of work before he will be allowed to represent the University in any athletic contest or in any other public capacity.

No student reported as deficient in a majority of his classes may participate in any athletic contest or otherwise publicly represent the University, until the deficiency is made good.

No team or club will be allowed to be absent from the University for more than five lecture days during the term.

The manager of each athletic team or musical club shall submit to the Athletic Committee or to the President a schedule of all engagements before positive arrangements are made.

The rules governing the eligibility of players are as follows:

1. Before any student can become a member or a substitute member of any athletic team in the University, and take part in any intercollegiate contest, he must make application to the Committee on Athletics in the University and secure the endorsed approval of that Committee to his application. It shall be the duty of the Athletic Committee to have the executive officers of the University endorse such application to the effect that the applicant is a regular student of the University, registered on or before October 12 of the fall session.

2. It shall be the duty of the Athletic Committee to inquire into and make a record of the athletic experiences of the appli-

cant, and it shall be the duty of the applicant to appear before the committee and answer on his honor such questions as the Committee may see fit to ask.

3. It shall be the duty of the Athletic Committee to require a pledge in writing of the applicant, certifying on his honor that he has never accepted directly or indirectly remuneration, compensatory gift, valuable consideration, or promise thereof, for his athletic services, and that he is in the proper and strict sense of the word an amateur player in collegiate athletic sports, before the Committee endorses his application.

4. No student of the University who has been a member or a substitute member of a baseball or football team at another college* or university during the preceding college year shall be permitted to become a member of either baseball or football team at this University during the college year in which he matriculates until he shall have been a student in residence at this University for at least five months.

5. No person whose name is in the faculty list or appears in the catalogue list of officers of instruction and administration of the University, and who receives remuneration therefrom, shall be a member of any athletic team representing the University.

6. Whereas a member of an athletic team of this University is a representative student and enjoys special honor in thus representing the University, this privilege shall be withheld from any student whose scholastic standing is discreditable.

7. Any student who has participated as a player on a college team in either football or baseball for a period of four years shall thereafter be ineligible for such athletic contests of the University.

Fraternities

Undergraduate students may join fraternities after registration in their Sophomore year. Fraternity men are not allowed to pledge Freshmen to join fraternities.

*The term college is hereby interpreted to mean any college named in Table 28 of the Report of the U. S. Commissioner of Education, which has not less than 150 male students of collegiate grade recorded in the catalogue of the institution in question as students of the college year preceding the applicant's entrance into the University.

PART FOUR

THE SCHOOL OF LAW
THE SCHOOL OF MEDICINE
THE SCHOOL OF PHARMACY
THE SUMMER SCHOOL FOR TEACHERS

THE LAW SCHOOL

FRANCIS PRESTON VENABLE, PH. D., LL. D., PRESIDENT.
LUCIUS POLK MCGEHEE, A. B., *Dean.*

LUCIUS POLK MCGEHEE, A. B., *Professor of Law.*
PATRICK HENRY WINSTON, A. B., *Professor of Law.*
ATWELL CAMPBELL MCINTOSH, A. M., *Professor of Law.*

The law school which developed into the Law School of the University was founded in 1843 at Chapel Hill as a private school by William H. Battle, then a judge of the Superior Court, later a Justice of the Supreme Court of the State. In 1845 Judge Battle was made Professor of Law in the University and it was provided that the degree of Bachelor of Laws should be conferred on those completing the prescribed two year course. From the records of the University, however, it seems that few degrees were actually conferred. For a long time the school maintained a certain independence of the University. The Professor of Law received no salary though he enjoyed the fees from his classes, and the students were not entirely subject to the discipline of the University.

In 1899 the school was completely incorporated into the University, with the late Judge James C. MacRae, previously a Justice of the Supreme Court of North Carolina, as the first Dean of the Law School.

REQUIREMENTS FOR ADMISSION

For admission to the regular work of the school, students, unless they are "special students" as explained below, must have completed fourteen units of work. This amount of work is about

equivalent to four years training in a high school. It is the same as the entrance requirement to the Freshman class in the academic department of the University, and will be found explained on page 26 of General Catalogue.

Students over twenty years of age who are not able to qualify as regular students may be admitted as "special students" upon presenting satisfactory evidence that they have received such training as will enable them to make profitable use of the opportunities offered in the school.

Seniors in the College will be admitted to take as electives courses selected, with the approval of the Dean, from the first year's work of the law school.

The days for the registration of law students are the same as for the registration of students for the college. See the General Catalogue, page 114.

DEGREE OF LL. B.

The degree of Bachelor of Laws (LL. B.) will be conferred upon students who have satisfactorily completed the entire courses prescribed for the Junior and Senior Classes of the Law School, and who satisfy the following conditions:

(*a*) Candidates must have completed academic courses equivalent to the work of the Freshmen and Sophomore Classes in the University.

(*b*) Candidates must present satisfactory theses on legal subjects approved by the Dean.

(*c*) Candidates must have spent at least one year in residence at the University as students in the School of Law.

In the discretion of the Law Faculty, credit may be given to candidates for courses completed in other Schools of Law of recognized standing.

Plans have been considered for enlarging and lengthening the curriculum, and the Law Faculty has been authorized to formulate a three years' course of study for candidates for the degree of Bachelor of Laws. It is not considered wise to make this change at present, and it will be duly announced in the catalogue.

CERTIFICATES

Any student who has been in regular attendance in the School of Law and who has satisfactorily completed one or more courses is entitled to a certificate of attendance and standing.

NUMBER OF HOURS WORK REQUIRED OR PERMITTED

No student will be permitted to take more than eighteen hours of work weekly except with the special permission of the Faculty.

No student, unless he is also taking other courses in the University, will be permitted to take less than ten hours of work weekly, nor will a student taking less than ten hours weekly be considered as studying law within the rule of the Supreme Court requiring two years' study of law as a necessary preliminary of applicants for license to practice in North Carolina.

COURSES OF INSTRUCTION

The courses offered and the general order in which they are taken up are indicated in the following programme of studies, which is arranged to cover two years, known as the Junior Year and the Senior Year. The method of instruction varies in the different courses. In some text-books and lectures with collateral reading of cases form the basis of work. In others the subject is developed directly from the study of selections of decided cases, and quizzes thereon.

Junior Year.

FALL TERM.

ELEMENTARY LAW.—Professor WINSTON. A general outline of the field of legal studies. Clark's *Elementary Law*. Two hours a week.

CONTRACTS.—Professor MCINTOSH. The general principles of contract. McIntosh's *Cases on Contracts*. Four hours a week.

PERSONS.—Professor MCGEHEE. Domestic relations, including husband and wife with marriage and divorce, parent and child, guardian and ward, infancy, insanity, drunkenness, and aliens. Woodruff's *Cases on Domestic Relations*, and selected cases. Two hours a week.

BAILMENTS.—Professor MCINTOSH. Bailments, carriers, telegraphs, and telephones. Goddard's *Cases on Bailments*. Two hours a week.

AGENCY.—Professor MCGEHEE. Mechem's *Cases on Agency*. Two hours a week.

PROPERTY.—Professor WINSTON. A rapid outline of personal property, after which the study of real property is begun. The first part of Lawson's *Cases on Personal Property*. Tiffany's *Modern Law of Real Property*. Three hours a week.

SPRING TERM.

CRIMINAL LAW.—Professor WINSTON. May's *Criminal Law*, with statutes and selected cases. Two hours a week.

TORTS.—Professor MCINTOSH. Burdick's *Torts*, Mordecai and McIntosh's *Cases on Remedies*. Three hours a week.

SALES.—Professor MCGEHEE. Lawson's *Cases on Personality* (p. 321 to end) and selected cases. Two hours a week.

NEGOTIABLE INSTRUMENTS.—Professor MCINTOSH. Bigelow's *Cases on Bills and Notes* and *The Negotiable Instrument Law*. Two hours a week.

QUASI-CONTRACTS.—Professor MCGEHEE. Lectures and selected cases. One hour a week.

PROPERTY.—Professor WINSTON. The law of real property as presented in Tiffany's *Modern Law of Real Property* is completed. Three hours a week.

PRACTICE AND PROCEDURE.—Professor MCGEHEE. A study of remedies and pleading, which continues throughout the remainder of the student's course, is begun. This term is devoted to common law remedies and common law pleading. Phillip's *Code Pleading* to section 136, Mordecai and McIntosh's *Cases on Remedies* and selected cases. Two hours a week.

Senior Year

FALL TERM

CONSTITUTIONAL LAW.—Professor MCGEHEE. Cooley's *Principles*, Boyd's *Cases on Constitutional Law* and selected cases. Four hours a week.

EQUITY.—Professor WINSTON. Bispham's *Principles of Eqity*. Three hours a week.

EVIDENCE.—Professor MCINTOSH. Wigmore's *Cases on Evidence*. Three hours a week.

INSURANCE.—Professor WINSTON. Richard's *Cases on Insurance*. Two hours a week.

FEDERAL COURTS.—Professor MCINTOSH. The United States Courts and the study of the law and procedure of selected topics in Federal jurisdiction. Hughes on *Federal Jurisdiction* is the basis of instruction.

PRACTICE AND PROCEDURE.—Professor MCGEHEE. After a study of equity pleading and procedure, pleading under American code system is begun. The subject is developed through selected cases in connection with Phillip's *Code Pleading* from section 137. Two hours a week.

SPRING TERM.

PRIVATE CORPORATIONS.—Professor MCGEHEE. Clark on *Corporations*, with cases. Three hours a week.

PUBLIC CORPORATIONS.—Professor MCINTOSH. Elliott's *Public Corporations*, with cases. Two hours a week.

BANKRUPTCY AND INSOLVENCY.—Professor MCINTOSH. Assignments for benefit of creditors, creditor's remedies, and the Federal bankruptcy act. Lectures, selected cases, the Federal bankruptcy act. Two hours a week.

PARTNERSHIP.—Professor WINSTON. Mechem's *Cases on Partnership*. Two hours a week.

SURETYSHIP.—Professor WINSTON. Bunker's *Cases on Suretyship*. One hour a week.

WILLS AND ADMINISTRATION.—Professor WINSTON. Costigan's *Cases on Wills and Administration*. Two hours a week.

CONFLICT OF LAWS.—Professor MCINTOSH. Lectures and cases. One hour a week.

PRACTICE AND PROCEDURE.—Professor MCGEHEE. Code pleading and practice. Phillip's *Code Pleading*, and cases. Two hours a week.

SCHEDULE OF LAW RECITATIONS

Senior studies in CAPS; Junior in small type.

	8:30	9:45	10:40	11:35	12:30
Fall	Bailments	CONST L	FED. CTS.	Agency	EVIDENCE
MONDAY					
Spring	Bills and Notes	PRIV. CORP.	Plead., Etc.	Sales	BANKR'CY
Fall	PLEAD., Etc	EQUITY	Property	Contracts	EVIDENCE
TUESDAY					
Spring	PLEAD., Etc	PART'SHIP	Property	Torts	MUN. CORP
Fall	Bailments	CONST. LAW	Persons	Contracts	INSUR'NCE
WEDNES.					
Spring	Bills and Notes	PRIV. CORP.	Quasi-Contr.	BANKR'CY	WILLS, Etc
Fall	Elem. Law	EQUITY	Property	Contracts	CONST. L.
THURSDAY					
Spring	Crim. Law	SURETYSH'P	Property	Torts	CONFL. L.
Fall	PLEAD , Etc	CONST. LAW	Persons	Agency	INSUR'NCE
FRIDAY					
Spring	PLEAD., Etc.	PRIV. CORP.	Plead , Etc	Sales	WILLS, Etc
Fall	Elem. Law	EQUITY	Property	Contracts	EVIDENCE
SATURDAY					
Spring	Crim. Law	PART'SHIP	Property	Torts	MUN CORP

MOOT COURT

A Moot Court for practice in the preparation of pleadings, the argument of law points, and the actual conduct of trials is a feature of the school. It is conducted by the students with the assistance and co-operation of the Faculty. The court meets weekly, a member of the faculty presiding.

UNIVERSITY PRIVILEGES

Students in the Law School will be admitted without additional expense to the courses given in the Department of Economics and History in the University, and to the courses in Public Spaking and English, subject to the rules stated as to the num-

ber of hours which a student may take. A student taking such a course in the University must of course satisfy the entrance requirements for the course selected.

Students of the School are also entitled to become members of the Dialectic and Philanthropic Literary Societies of the University, where they may take part in or witness debates of a high order and train themselves in parliamentary law. They are further admitted to all the privileges of the University library of 55,000 volumes, to the University gymnasium, and the organizations of the University generally, literary, social, and athletic.

THE LAW LIBRARY

The law library is housed in the Law Building and contains about 4,000 volumes. The annual revenue of a fund raised by the former students and friends of the late Professor John Manning, LL. D., who presided over the School for many years, is devoted to the purchase of books for the library. Free access to the library is allowed to the students of the School, though they are not permitted to take books from the building.

THE BRYAN PRIZE

A prize of twenty-five dollars in gold is offered each year by Shepard Bryan, Esq., of the Atlanta Bar, in honor of his father, the Honorable Henry R. Bryan, of New Bern, N. C., to be awarded to the member of the Senior Law Class who shall submit the best thesis upon an approved legal subject.

FEES AND EXPENSES

Tuition for Fall and Spring terms, each.....$35.00
Registration fees..... 12.50

There are no scholarships in the School. Good board is furnished at Commons Hall for $10 a month and at the University Inn for $15 a month. In the village board may be secured for from $8 to $15, or with rooms, from $10 to $20 a month.

The rent of unfurnished rooms in the dormitories ranges from seventy-five cents to $2.50 a month, for each occupant; and for

each room a charge of one dollar a month is made for electric light and one dollar a month for heat.

ADMISSION TO THE BAR OF NORTH CAROLINA

Admission to the Bar of North Carolina is under the direct control of the Supreme Court of the State. The court holds two examinations annually of applicants for license, one in February, the other in August. The examination is conducted in writing and under the supervision of the Court. The rules of the Court require the applicant to have read law for two years. Where circumstances and means permit, the reading should be done at a regular school of law. But the requirements of the rule may be satisfied by private reading. Students who have read law for a year privately or in a law office may by attending the school for one year, beginning either in September or January, and by attending a term of the summer school have an opportunity to study or review the course required by the Supreme Court of applicants for license.

To do this, it will be necessary for such students to select, with the approval of the Faculty, subjects from the regular courses of both the Junior and Senior years. Such a course is not advised or approved except in cases where limited means render it a regrettable necessity. Two years spent in systematic study under competent iustructors is a minimum period for mastering even the elements of so wide, complicated and technical a subject as the law. The student should remember that he is preparing for his life-work, and only detriment to that life-work can in general result from a feverish anxiety to cut short the period of preparation and to abridge the studies which experience has marked out for the acquisition of the necessary qualifications.

THE SUMMER LAW SCHOOL

A session of the School of Law is maintained during each summer for the purpose of providing:

1st. A course for those who wish to begin the study of law.

2nd. A thorough review of the course prescribed by the Supreme Court of North Carolina for application for license.

3rd. An opportunity for instruction for men who cannot become resident students during the scholastic year.

4th. An opportunity for members of the Bar to review certain branches of law.

Session

The term for the summer of 1911 begins June 15th and ends August 25th, three days prior to the examination before the Supreme Court for admission to the Bar of North Carolina.

Lectures and Recitations

At this session daily lectures and recitations of one hour and a half each will be held by two professors of the Law Faculty. In addition there will be frequent quizzes. The two courses offered will cover the requirements for reading prescribed for admission to the Bar of North Carolina. The instruction is to be conducted by means of text-books, lectures, leading cases, quizzes, and moot-court.

An outline of the work of the two courses includes:

1. Ewell's Essentials of the Law, Volume I (embracing the law of Domestic Relations, Real Property, Personal Property, and Crimes. Other text-books to be used are 1st Blackstone; 2nd Blackstone and Tiffany on Real Property; 3rd Blackstone and Code Pleading; 4th Blackstone; Clark on Contracts; Burdick on Torts.

2. 1st Greenleaf on Evidence and N. C. Revisal Chapter on Evidence; Bispham on Equity; Clark on Corporations; Schouler on Executors, with N. C. Revisal chapters on Widows, Wills, Testaments, Descent and Distribution; First volume of N. C. Revisal of 1905, with Clark's Code of Civil Procedure; Constitutions of the United States and North Carolina; The Codes of Legal Ethics of the National and State Bar Associations; Cooley's Principles of Constitutional Law.

Examinations

No entrance examination is required; but each student must satisfy the faculty that he has sufficient general education to enable him to take the course with profit to himself. Examinations are required as each subject is completed, and at the end of the term certificates to that effect are issued to such students as have passed with credit all examinations in both courses. These certificates will not entitle the recipients to any credit in the work of the regular school.

Fees and Expenses

Tuition for term	$30.00
Registration and Incidental Fees	5.00

The above mentioned fees cover privileges of University library, gymnasium, and baths. Board in the village, with room, will cost from $10 to $20 a month; without room, from $10 to $15.

For further information address the President of the University or the Dean of the School of Law, Chapel Hill, N. C.

THE SCHOOL OF MEDICINE

FRANCIS PRESTON VENABLE, PH.D., D.SC., LL.D., PRESIDENT.
ISAAC HALL MANNING, M. D., *Dean.*

CHARLES STAPLES MANGUM, A. B., M. D., *Professor of Anatomy.*
ISAAC HALL MANNING, M. D., *Professor of Physiology.*
WILLIAM DEBERNIERE MCNIDER, M. D., *Professor of Pharmacology and Bacteriology.*
*——— ——— ———, *Professor of Histology and Pathology.*
HENRY VAN PETERS WILSON, PH.D., *Professor of Zoology.*
EDWARD VERNON HOWELL, A. B., Ph.G., *Professor of Pharmacy.*
CHARLES HOLMES HERTY, Ph.D., *Smith Professor of General and Industrial Chemistry.*
WILLIAM CHAMBERS COKER, Ph.D., *Professor of Botany.*
ANDREW HENRY PATTERSON, A. M., *Professor of Physics.*
†ALVIN SAWYER WHEELER, Ph.D., *Assistant Professor of Organic Chemistry.*
ROBERT BAKER LAWSON, M. D., *Associate Professor of Anatomy.*
PARKER HAYWARD DAGGETT, S.B., *Associate Professor of Electrical Engineering.*
ROBERT ANDERSON HALL, Ph.D., *Associate Professor of Organic Chemistry.*
JAMES MUNSIE BELL, Ph.D., *Associate Professor of Physical Chemistry.*
JOHN GROVER BEARD, Ph.G., *Instructor in Pharmacy.*
HAMPDEN HILL, S.B., *Instructor in Chemistry.*
VIVIAN LEROY CHRISLER, A. M., *Instructor in Physics.*
GEORGE ALEXANDER WHEELER, *Assistant in Anatomy.*

*To be elected.
†Absent on leave, 1910-1911.

Wortham Wyatt, A.B., *Assistant in Bacteriology.*
John Archibald McKay, *Assistant in Botany.*
Robert Lee Hunter, *Assistant in Chemistry.*
William Lewis Jeffries, A.B., *Assistant in Chemistry.*
Thomas Palmer Nash, Jr., A.B., *Assistant in Chemistry.*
William Augustus Rudisill, A.B., *Assistant in Chemistry.*
David Bryan Sloan, A.B., *Assistant in Histology.*
James Ambler Speight, *Assistant in Histology.*
James Talmage Dobbins, *Assistant in Physics.*
Alexander Ttlejohn Feild, *Assistant in Physics.*
Gordon Wesley Thompson, *Assistant in Physics.*
Orren Williams Hyman, A.B., *Assistant in Zoology.*
Lee Franklin Turlington, A.B., *Assistant in Zoology.*

HISTORICAL SKETCH

The School of Medicine was established in 1879, and Dr. Thomas W. Harris was chosen to direct its work. A course of two years in theoretical medicine was offered, but the difficulties of conducting it on this plan were very great and the effort was abandoned in 1886. In 1890, however, the school was reestablished, Dr. R. H. Whitehead was elected Professor of Anatomy, and a course of one year in the elementary subjects, Anatomy, Chemistry, Physics, Physiology, etc., was offered. As the requirements for the degree of Doctor of Medicine were increased the medical faculty was enlarged and the course extended to embrace the first two years of the medical curriculum. In 1898 it was admitted to membership in the Association of American Medical Colleges, and in 1901 it was incorporated as an integral part of the University on the same footing as the graduate and other professional schools. In 1902 a clinical department was established at Raleigh, but it seemed advisable to discontinue it in 1909 on account of lack of equipment.

COURSES OFFERED

The following courses are offered:

1. A Preparatory or Pre-medical Course. This is a course of one year in which special attention is given to the ele-

mentary sciences, Biology, Chemistry, and Physics. It is required for entrance to the medical course.

2. The Medical Course. The Association of the American Medical Colleges recommend for the degree of Doctor of Medicine a course of four years. The Medical Course covers the subjects of the first two years of the curriculum and additional courses in chemistry and comparative anatomy. It is accepted in full by most of the medical schools.
3. A Combined Course, a course leading to the degree of Bachelor of Science. This is a course of two years of prescribed work in the College of Liberal Arts and two years of the medical course, the satisfactory completion of which entitles the student to the degree of Bachelor of Science. It enables the student to obtain a literary degree and the degree of Doctor of Medicine in six years.

The Curriculum

PREPARATORY OR PREMEDICAL COURSE

English 1, 3 hours	Chemistry 1, 4 hours
German A, 3 "	Chemistry 3, 2 "
Physics A, 3 "	Zoology 1, 3 "

The Medical Course

FIRST YEAR

Chemistry: Quantitative Analysis (Chem. 4A) or Organic Chemistry (Chem. 5). Six hours a week until February 1: total, 96 hours.

Biological Chemistry. Six hours a week from February 1 to the end of the term: total, 96 hours.

Anatomy: Comparative Anatomy. Six hours a week until February 1: total, 96 hours.

Human Anatomy 1: Nine hours a week throughout the year: total, 280 hours.

Microscopic Anatomy: Ten hours a week until March 1: total, 200 hours.

Embryology: Eight hours a week from March 1 to the end of the term: total, 96 hours.

Pharmacognosy and Pharmacy: six hours a week from February 1 to the end of the term: total, 90 hours.

SECOND YEAR

Physiology. Five hours a week throughout the year: total, 180 hours.

Biological Chemistry. Six hours a week until February 1: total, 96 hours.

Experimental Physiology. Five hours a week from February 1 to the end of the term: total, 75 hours.

Anatomy. Nine hours a week until February 1: total, 126 hours.

Neurology. Six hours a week until January 1: total, 78 hours.

Bacteriology. Eight hours a week until February 1: total, 128 hours.

Pathology. Twelve hours a week from February 1 to the end of the term: total, 180 hours.

Pharmacology and Materia Medica. Nine hours a week from February 1 to the end of the term: total, 130 hours.

Minor Surgery and Normal Physical Diagnosis. Four hours a week from February 1 to the end of the term: total, 60 hours.

Experimental Pharmacology. Five hours a week from February 1 to the end of the term: total, 75 hours.

SUMMARY OF FIRST AND SECOND YEARS

Subjects	Hours
Chemistry	288
Anatomy	880
Physiology	255
Bacteriology	128
Pathology	180
Pharmacology	155
Pharmacy	90
Minor Surgery and Physical Diagnosis	60
Total	2036 hours.

The Combined Course: College Studies

First Year	Second Year
English 1 (3)	English 2 (3)
Mathematics 1 (4)	Physics 1 (3)
Chemistry 1 (3)	Zoology 1 (3)
Botany 1 (3)	Chemistry 3 (2)
Select one: German 1 (3), French 1 (3), Latin 1 (4)	Select one: German 1 or 2 (3), French 1 or 2 (3), Latin 1 (4)
	Select one: Drawing 1 (2), History 1 (3)

ADMISSION

Candidates for admission and students already members of the School should present themselves to the President and Dean of the School for registration on *Monday*, *Tuesday* or *Wednesday*, *September 11*, *12* or *13*, *1911*, and *Monday* or *Tuesday*, *January 2* or *3*, *1912*.

ENTRANCE REQUIREMENTS

The requirements for admission to the premedical combined courses are the same as for the College of Liberal Arts.

The requirements for admission into the Medical School are the satisfactory completion of one year in the University or certificates of its equivalent from an approved college. Students may be admitted to the second year of the Medical course upon furnishing certificates of having completed the first year in an approved Medical school, or upon passing an examination upon the subjects studied in the first year. An examination will not be allowed until the candidate furnishes a certificate of having attended eighty per cent. of the hours required.

EXAMINATIONS

Regular examinations are held during the two regular examination periods of the College of Liberal Arts Special examinations will be given for the purpose of making up deficiencis during Registration Week. A fee of $5.00 will be charged each applicant for an examination at any other time.

EXPENSES

The following are the charges a term payable at the beginning of each term in September and January respectively:

Tuition	$35.00
Fee for matriculation (registration, library, infirmary, etc.)	12.50
Total	$47.50

In addition the following fees will be charged for laboratory courses a term:

Chemistry 4A, $5.00; Chemistry 10, $5.00; Zoology 1, $3.00; Zoology 2, $5.00; Experimental Physiology and Pharmacology, $5.00; Pharmacy, $5.00; Bacteriology, $2.50: Pathology, $2.50; for the use of the microscope, 50c.

The laboratory fees are divided approximately equally among the four terms. The total charge in the first year is between $55.00 and $59.00 a term, in the second year between $57.50 and $58.50 a term.

The following are the charges a term for students pursuing the premedical course:

Tuition	$30.00
Matriculation, etc	12.50
Laboratories	5.00
Total	$47.50

Good board is furnished at Commons Hall for $10 a month and at the University Inn for $15 a month. The rent of un furnished rooms in the dormitories ranges from seventy-five cents to $2.75 a month for each occupant. For each room a charge of $2.00 a month is made for electric light and heat.

PRIZES AND SCHOLARSHIPS

The Harris Prize. (Established in 1895). Mrs. Thomas W. Harris offers in honor of the late Dr. Thomas W. Harris, a pocket case of instruments to that student who shall make the best grade in anatomy.

THE WOOD SCHOLARSHIP. (Established in 1895). Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her husband, the late Dr. Thomas Fanning Wood, a scholarship covering the tuition fees.

THE GENERAL PLAN OF INSTRUCTION

In the arrangement and the conduct of the courses an effort is made to follow modern educational ideals. A year of college training in the elementary sciences, Chemistry, Physics, and Biology, is recognized as a minimum preparation for the study of medicine, and such a course is offered. The necessity, however, for a more liberal education, especially in the sciences, is apparenf. Moreover the study of Anatomy, Physiology, Bacteriology, and other elementary subjects is at least of equal value with the study of Chemistry, Physics, and Biology in a general education. These facts are recognized in the offering of a course leading to the degree of Bachelor of Science and Doctor of Medicine. In offering such a course the value of a properly directed college course of four years as a preparation for the study of medicine is not minimized,—on the contrary it is earnestly recommended.

In the arrangement of the courses of study in the Medical School the attempt is made to follow their natural sequence. In the first year the student devotes his time to anatomical and chemical studies: Gross Human and Comparative Anatomy, Microscopic Anatomy, Embryology, Biological Chemistry, and Pharmacy, a thorough knowledge of which is necessary to the proper appreciation of the subjects to follow. In the second year Physiology is begun and completed. Anatomy, Biological Chemistry, Toxicology, and Bacteriology are completed in the first half of the year; Materia Medica, Pharmacology, Pathology, Normal Physical Diagnosis in the second half; so that at the expiration of the two years the student will have completed the fundamental branches of medicine, and be prepared to enter upon the study of the more practical subjects.

In the plan of instruction the laboratory method supplemented with a systematic course of lectures and demonstrations is pursued. The lectures and laboratory coures are, as far as possible,

given contemporaneously, for in this way the student not only acquires technical skill, but, it is believed, will gain a more thorough grasp of the subject. When advisable the classes are divided into small sections, so that the work of each student is under the direct supervision and close observation of the instructor. Frequent oral and written quizzes and a final examination are given in each subject, the object of which is to exact systematic and continuous work. An attendance upon class of 80 per cent. and a grade of 80 in each subject is required.

EQUIPMENT

The School is well equipped. It has an adequate corps of trained instructors devoting their entire time to teaching and investigating, and those directly in charge of all purely medical subjects are graduates of Medical Schools. A building containing ten rooms with a floor space of six thousand square feet and a recently erected Anatomical Laboratory have been set apart for its use. In the former the lecture rooms, the Bacteriological, Pathological, Histological, Physiological, and Pharmacological laboratories and the department library are located, all of which are well lighted and provided with modern conveniences and apparatus for the careful training of the student and the more advanced work of the instructor. The anatomical building is well equipped for dissection and the care of anatomal material. Instruction in Comparative Anatomy is given in Davie Hall and Chemistry in the chemical laboratory, both of which are described elsewhere. The University library, the gymnasium, and the laboratories of all departments of the University are open to the medical students who are encouraged to avail themselves of them.

COURSES OF INSTRUCTION

Chemistry

Professor HERTY and Mr. HILL.

1. General Descriptive Chemistry. Premedical. The elements are studied in a systematic manner. The laws governing their combination and the compounds resulting are con-

sidered with appropriate reference to their occurrence and relationships to medicine. The latter part of the course is taken up with organic chemistry. Texts: McPherson's *Elementary Chemistry;* Remsen's *Organic Chemistry*. *Both terms, three hours.*

Laboratory fee, $.125.

Associate Professor HALL and Messrs. NASH and HUNTER.

3. Qualitative Analysis. Premedical. Laboratory work with lectures. The behavior of the elements and their compounds is studied in the laboratory. Practice is given in the analysis of known and unknown mixtures. Text: Venable and Wheeler's *Qualitative Chemical Analysis* and and the professor's notes. *Both terms, two hours.*

Laboratory fee, $5.00 a term.

Associate Professor BELL.

4A. Quantitative Analysis. A brief course in gravimetric methods, followed by a more extended course in volumetric methods. Laboratory notes. *Fall term, six hours.*

Laboratory fee, $5.00.

Associate Professor HALL.

5. Organic Chemistry. Elective; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*

Laboratory fee, $4.00 a term.

5A. Organic Chemistry: special preparations. Elective. *Both terms, laboratory, two hours.*

Laboratory fee, $6.00.

Professor MANNING and Associate Professor HALL.

Biological Chemistry and Toxicology. This course is designed to give the student laboratory training in organic chemistry and its application to the study of physiological problems. Students will perform a series of experiments bearing more or lees directly on problems of metabolism, studying the proteins, carbohydrates, and fats, the digestive

juices and their action, blood, urine, milk, and such tissues as will afford evidence of the general course of metabolic processes. They will prepare as many synthetical compounds illustrating the fuudamental laws of organic chemistry as time will permit. The chemical behavior of poisons and their separation is studied in the laboratory. Each student will be required to keep a laboratory notebook. Lectures discussing the theories of physiological Chemistry will be given contemporaneously with the laboratory course. Texts: Autenrieth; Haskins and McLeod. Austin and notes. First year, spring term; second year, fall term.

Laboratory fee, $5.00 a term.

Physics

Mr. CHRISLER.

A. Elementary Physics. The fundamental facts of Physics are studied with some special attention to heat and electricity. Text-book, lectures, and laboratory work. *Both terms, three hours.*

Certificates of Physics work done elsewhere than in a college of approved standing will not be accepted in lieu of this course.

Professor PATTERSON.

4. Electricity and Magnetism. A study of the phenomena of electricity and magnetism, and their application in modern life, including the use of the X-rays, the rays of Radium, and other applications in Electrotherapeutics. Laboratory work required. Elective. *Both terms, two hours.*

Zoology

Professor WILSON.

1. General Zoology: an introductory course giving an outline of the classification and structure of animals, with consideration of the fundamentals of histology, embryology, and physiology, and some consideration of biological theories;

lectures with laboratory work. Text: Hertwig. Elective in the first year.

Laboratory fee, $3.00 a term.

2. Comparative Anatomy of Vertebrates (first half). Dissection of vertebrate types: ascidian, amphioxus, cyclostome, selachian, teleost, reptile, bird, mammal. Text: Hertwig.

Laboratory fee, $5.00.

Botany

Professor Coker.

1. General Botany: an introduction to the structure and classification of plants; lectures with laboratory work. Elective in the first year.

Microscopic Anatomy

Messrs. Speight and Sloan.

This course is divided into three parts as follows:

1. Histology. Stress is laid on the proper conception of the fundamental tissues, which are studied, first in section, and then in fresh or macerated preparations, apart from the consideration of organs.

2. Microscopic Anatomy of Organs (excepting the central nervous system). Sections from all organs are supplied in sufficient number to cover the finer details of structure. Fresh and preserved abattoir matter is furnished along with the sections.

Throughout the course, each student stains and mounts his own sections and is required to make specified drawings and descriptions. By means of prepared slides, loaned to each student, details requiring special technique are shown, such as elastin stains, silver nitrate impregnations, injections, etc. Including some mounts of fresh tissues and blood smears, a minimum of 200 slides is prepared in the

laboratory. Lectures supplement the laboratory work, but a considerable part of this time is devoted to oral and written recitations. The final examination is both written and practical, the latter consisting of two parts, the diagnosis and the written description of slides.

3. Microscopic Technique. This portion of the course is given out of schedule hours. Under supervision, each student using several methods of fixation and both celloidin and paraffin imbedding, carries 5 tissues from the raw state to the stained section, which must be approved by the instructor. Reference, Boehm-Davidoff-Huber.

Anatomy

Professor MANGUM, Associate Professor LAWSON, and MR. WHEELER.

The method of instruction is one of dissection and demonstration supplemented by lectures. Each student is required to dissect one-half of the body under the constant supervision of an instructor, who examines him daily upon the work done. Frequent practical examinations are held upon which stress is laid in order to enforce proper study of the cadaver.

1. In the First Year the lectures and demonstrations proceed by systems. The bones, the articulations, the descriptive anatomy and relations of the viscera are demonstrated to each student. During this year the student dissects one-fourth of the body.

2. In the Second Year the student finishes the dissection of the body and especial stress is laid upon topographical anatomy and the relations of anatomy to surgery. A final examination is held upon the entire subject of anatomy.

3. Neurology. Special laboratory study of the gross and microscopic anatomy of the cord and encephalon.
   Text: Cunningham or Morris; Cunningham's Manual of Practical Anatomy; Whitehead's Anatomy of the Brain.

4. Vertebrate Embryology. The lectures embrace the phenomena of cell division, ovulation and impregnation, and the development of the human body to the end of the foetal stage. In the laboratory the student verifies the facts by the study of organogeny in the chick and in the pig and the foetal membranes in mammals.
Texts: Bailey and Miller; Marshall; Minot's *Laboratory Text.*

Physiology

Professor MANNING.

This course consists of lectures and laboratory work. In the lectures a brief account of general and cell physiology is given as an introduction; then follows a detailed discusion of the facts and theories of human physiology with a brief account of such experiments on the lower animals and such clinical observations and experiments as bear upon the subjects. Contemporaneously with the lectures, a laboratory course is given in which the student learns the methods of experimental physiology and performs such experiments as will demonstrate the more obvious facts. Texts: Howell; Stewart; Porter.

Materia Medica and Pharmacology

Professor MACNIDER.

1. Materia Medica. The general consideration of this subject is given in the first year of the medical curriculum. In the second year the important drugs are studied in groups, the classification depending upon their physiological action. Emphasis is given to the most useful preparations of the most important drugs, and their physiological action is studied in detail.

2. Prescription Writing. As early as possible in the course the student's attention is directed to the logical application of various drugs to the relief of morbid conditions. Hypothetical conditions are discussed, and each student writes

one or more prescriptions and gives his reason for the use of the various drugs he employs. The prescriptions are discussed and criticised by the students and the instructor.

9. Pharmacodynamics. This part of the general course in Pharmacology consists in a careful and accurate study of the action of practically all of the more important drugs on the lower animals. For this work, the higher animals, such as the cat and dog, are chiefly used. The class is divided into groups of two or four, and the experimental work is conducted by the students. Each student is required to hand in to the instructor, at the completion of the course, a laboratory note book containing a detailed account of each experiment, an explanation of the results obtained, and the tracings made during the experiments. Oral and written recitations are frequently held. Text: Wilcox. Pharmacology and Therapeutics. Reference: Sollman, Cushny and Wood.

Pathology

Professor ——, assisted by Professor MacNider.

1. Pathological Histology. General Pathological processes are first studied, followed by the special pathology of the different organs and systems. Each student receives and is required to stain, mount, and study about 250 sections, and to draw or describe those designated by the instructor. In addition, rarer lesions and those requiring special technique are shown by demonstration slides, and at frequent intervals tumors are given out for diagnosis. The list of sections illustrative of general pathology, particularly tumors, is made as complete as practicable, and in special pathology, cardiac and vascular diseases, typhoid fever, and the various forms of pneumonia, of cirrhosis of the liver, and of nephritis, are emphasized. The class is encouraged to study gross appearances in museum material in connection with sections. Oral and written

recitations are held frequently. The examination is both written and practical. Texts: Delafield and Pruden.

Professor MacNider and Mr. Wyatt.

2. Bacteriology. The student learns by practical experience the methods of cultivating, staining, and identifying the principal pathogenic bacteria. A few non-pathogenic and saprophytic forms are studied. The pathological significance of the various forms is explained by lectures, and the pathogenicity of some of the forms is determined by inoculation experiments performed by the class. At intervals during the course unknown organisms are given for identification. In addition to this, each student is required to isolate from the air, water, fecal matter, or pus two organisms and determine their species. The latter part of the course is devoted to the bacteriological study of milk and water. Text: Jordan. Reference: Park and McFarland.

Minor Surgery and Physical Diagnosis

Professor MacNider.

The class practices the application of bandages, learns the modern methods of dressing wounds. A short course in Physical Diagnosis is given. Text: Davis on Bandaging.

Pharmacy

Professor Howell.

The course in Pharmacy will consist in laboratory work supplemented by lectures. The student will have an opportunity to study the crude drugs and their official prescriptions and doses, and to familiarize himself with pharmaceutical methods in the preparation of official drugs, in writing and compounding prescriptions.

SCHOOL OF PHARMACY

FACULTY

FRANCIS PRESTON VENABLE, PH.D., D.SC., LL.D., PRESIDENT.
EDWARD VERNON HOWELL, A.B., PH.G., DEAN.

EDWARD VERNON HOWELL, A.B., PH.G., *Professor of Pharmacy.*
HENRY VAN PETERS WILSON, PH.D., *Professor of Zoology.*
WILLIAM DEBERNIERE MACNIDER, M.D., *Professor of Pharmacology and Bacteriology.*
ISAAC HALL MANNING, M.D., *Professor of Physiology.*
CHARLES HOLMES HERTY, PH.D., *Smith Professor of General and Industrial Chemistry.*
ANDREW HENRY PATTERSON, A.M., *Professor of Physics.*
WILLIAM CHAMBERS COKER, PH.D., *Professor of Botany.*
*ALVIN SAWYER WHEELER, PH.D., *Associate Professor of Organic Chemistry.*
ROBERT ANDERSON HALL, PH.D., *Associate Professor of Organic Chemistry.*
JAMES MUNSIE BELL, PH.D., *Associate Professor of Physical Chemistry.*
JOHN GROVER BEARD, *Instructor in Pharmacy.*
HAMPDEN HILL, S.B., *Instructor in Chemistry.*
VIVIAN LEROY CHRISLER, A.M., *Instructor in Physics.*
THOMAS PALMER NASH, JR., A.B. *Assistant in Chemistry.*
ROBERT LEE HUNTER, *Assistant in Chemistry.*
WILLIAM LEWIS JEFFRIES, A.B., *Assistant in Chemistry.*
WILLIAM AUGUSTUS RUDISILL, A.B., *Assistant in Chemistry.*
LEE FRANKLIN TURLINGTON, A.B., *Assistant in Zoology.*
ORREN WILLIAMS HYMAN, A.B., *Assistant in Zoology.*
JOHN ARCHIBALD MCKAY, *Assistant in Botany.*

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*Absent on leave, 1910-1911.

JAMES TALMAGE DOBBINS, *Assistant in Physics.*
ALEXANDER LITTLEJOHN FEILD, *Assistant in Physics.*
GORDON WESLEY THOMPSON, *Assistant in Physics.*

FOUNDATION

The School of Pharmacy was founded in 1897 and was opened for students in September of that year. Its location at the seat of the University assures to the students the most modern scientific instruction with all the laboratory facilities of the undergraduate department, as well as the courses of instruction in allied branches. These opportunities will meet the requirements of a large number of students who were compelled heretofore to obtain their pharmaceutical education in other States. Briefly stated, the advantages are as follows:

1. Thorough, careful, *individual* training.
2. The practical experience derived from active work in the laboratories.
3. Intimate association with the other departments of the University, to all of which the student of pharmacy has access, and the daily contact with students pursuing various branches of learning.
4. The use of the large library and reading room and the well equipped gymnasium.
5. The comparatively small cost at which a two years' course may be obtained.
6. The length of the course, which consists of two sessions of nine months each,—nearly a fourth longer than in many of the colleges of pharmacy.

The success of the students of this school in their examinations before the State boards has been very gratifying. Students of this School have been applicants before the State boards of Maryland, Pennsylvania, and North Carolina. None of the graduates of this School applying for license before State boards has failed to pass the examination.

ADMISSION

Candidates for admission into the School of Pharmacy should present themselves on the same days and at the same hours with candidates for admission into the college. For the next academic year these days will be *Monday*, *Tuesday*, or *Wednesday*, *September 11*, *12*, or *13*, *1911*, and *Tuesday*, or *Wednesday*, *January 2* or *3*, *1912*. The session of the School of Pharmacy is of the same length as the College year, beginning *September 11*, *1911*, and ending *June 6*, *1912*.

Candidates for the degree Ph.G. must be, on entering, at least 17 years old, and must have completed a high school course of study.

The members of the School of Pharmacy enjoy all the privileges extended to other students in the University.

EXPENSES

The charges for each term are payable at the beginning of the term. They are as follows:

Tuition	$30.00
Registration and incidental fees	12.50

There are additional fees as follows:

First-year

Chemistry 1 (each term)	$1.25
Physics A (each term)	.50

Second-year

Chemistry 3 (each term)	$5.00
Chemistry 10 (spring term)	5.00
Prescription Course	10.00

The students of Pharmacy are entitled to the use of the gymnasium, the library, and reading room, and, in case of sickness, to medical attention and the use of the infirmary.

Good board is furnished at Commons Hall at $10.00 a month and at the University Inn for $15.00 a month. The rent of unfurnished rooms ranges from 75 cents to $2.75 a month. For each

room is made a charge of $2.00 a month for electric light and heating.

PRIZES

The Bradham Prize, offered by Mr. C. D. Bradham, of New Bern, N. C., will be given to the student making the highest general average during the two years of study.

The Gilpin Langdon prize, offered by Messrs. Gilpin Langdon & Co., of Baltimore, Md., will be given to the student making the best line of preparations in the pharmaceutical laboratory.

Prizes will also be given:

1. For the best thesis.
2. For the best collection of native medicinal herbs.
3. For the best exhibit of chemical salts made by a second year student.
4. For the best work in the recognition of materia medica specimens.
5. To the student recognizing the largest number of pharmaceutical preparations.
6. To the student making the best general average during the first year of study.

EXAMINATIONS

Final examinations are held at the end of each term on the subjects embraced in the course.

Quizzes upon the different branches are held regularly. Specimen quizzes upon Materia Medica, Chemistry, and Pharmacy are held once a week, and consist in the recognition and correct writing of the official names of the specimens presented.

Students are required to make an average of 70 per cent. on all examinations and quizzes.

COURSES LEADING TO THE DEGREE OF GRADUATE OF PHARMACY

In order to be recommended for the degree of Graduate of Pharmacy (Ph.G.) the student must have completed with credit the course of study outlined below. The course extends over

two sessions of nine months each. The student must have completed the work of both sessions in the School of Pharmacy of this University, or of one session (the second) here after one in some other recognized school of Pharmacy. He must obtain satisfactory marking in attendance, making a general average of 70 per cent. in the various branches, and submit a satisfactory thesis. The thesis must be an original essay embodying the results of the student's personal research in some branch of Pharmacy, which he has prosecuted under the direction of the professor who assigned him the subject. The subject of such thesis must be announced on or before February 1 to the Dean of the Faculty. On May 2 the thesis shall be read before the Dean of the School, subject to criticism and correction. The corrected and approved thesis must be handed to the Registrar in typewritten form on or before May 15. It will be published at the discretion of the Dean of the School. He must also have had a practical experience of at least four years with some qualified Pharmacist in a dispensing store. Satisfactory evidence on this point must be submitted to the Dean of the School, and a certificate deposited with the Registrar on before May 15. Students who have not had the full four years' experience will be permitted to stand examinations for graduation; but their diplomas will be withheld until they shall have satisfied this requirement. Of the three years of experience required for license by the State Board of Pharmacy, the work done in the Pharmaceutical laboratory will count for one and only one.

First Year

Pharmacy 1 (5)
Pharmacy 4 (4)
Elementary Physics A (2)
Chemistry 1 (3)

Second Year

Pharmacy 2 (5)
Pharmacy 5 (8)
Materia Medica (5)
Materia Medica and Pharmacology (5)
Chemistry 3 (2)
Chemistry 10, spring term, (3)

COURSES OF INSTRUCTION

Pharmacy

Professor HOWELL.

1. Theory and Practice of Pharmacy. This course consists of lectures upon the following subjects, with practical demonstrations and the employment of proper apparatus whenever necessary; metrology, comminution, heat evaporation, distillation, sublimation; fusion, calcination, granulation, oxidation, reduction, etc.; solution of solid liquids, and gases; deliquescence, efflorescence, etc.; colation, filtration, decolorization, clarification, precipitation, etc.; macration, expression, infusion, decoction, etc.; percolation, and study of the following: waters, syrups, honeys, glycerites, mucilages, mixtures, spirits, elixirs, liniments, collodians, tinctures, wines, vinegars, and fluid extracts. Text: Remington, *Theory and Practice of Pharmacy*. First year. *Both terms, five hours.*

2. Theory and Practice of Pharmacy. The official forms and preparations of drugs are taken up in detail. Beginning with the inorganic compounds, the salts are considered with regard to their commercial qualities and pharmaceutical uses and preparations. The organic compounds are studied, commencing with the salts of the organic acids and passing to the natural and organic compounds. Second year. *Both terms, five hours.*

3. Lectures on Pharmaceutical Botany. This course is preparatory to the study of Materia Medica, and takes up the study of the flower, the various topics of fruits, seeds, etc., and a careful study of the descriptive terms as applied to leaves, stems, and roots. Inspection is given in the gathering and proper mounting of specimens of the official herbs that grow in this vicinity. First year. *Spring term, two hours.*

Professor HOWELL and Mr. BEARD.

4. Operative Pharmacy: a practical course with laboratory work. First year. *Both terms, four hours.*

5. Operative Pharmacy: a continuation of course 4. Second year. *Both terms, two hours.*

Materia Medica and Pharmacology

Professor HOWELL and Mr. BEARD.

1. Materia Medica. Lectures on the geographical and botanical sources of drugs; descriptions and uses of the same, together with their preparation and doses. Opportunity is given to the student to familiarize himself with most of the crude drugs and their preparations. Text: White and Wilcox. *Fall term, three hours.*

Professor MACNIDER.

2. Materia Medica and Pharmacology. This course is devoted to the study of the origin and constitution of remedial measures, their preparations and doses; and in particular, their physiological action and the indications for their rational use. Opportunity will be given to students to familiarize themselves with the more important crude drugs and their preparations. Instruction is given by means of lectures, recitations and demonstrations. The lectures intended to accompany the work in Toxicology are given as a part of the course in Materia Medica.

Physics

Mr. CHRISLER.

Elementary Physics (Physics A). The fundamental facts of Physics are studied with some special reference to heat and electricity. Text-book, lectures and laboratory work. First year. *Both terms, three hours.*

Certificates of Physics work done elsewhere than in a college of approved standing will not be accepted in lieu of this course.

Chemistry

Professor HERTY and Mr. HALL.

1. General Descriptive Chemistry. The elements are studied in a systematic manner. The laws governing their com-

bination, and the compounds resulting, are considered with appropriate reference to their occurrence and relationships to medicine. The latter part of the course is taken up with organic chemistry. Texts: McPherson and Henderson's *Elementary Study of Chemistry*, and Remsen's *Organic Chemistry*, supplemented by lectures and quizzes. First year. *Both terms: lectures, three hours; laboratory, two hours (fall term).*

Associate Professor HALL.

3. Qualitative Analysis. Laboratory work with lectures. The behavior of the elements and their compounds is studied in the laboratory. Practice is given in the analysis of known and unknown mixtures with special reference to the detection of poisons and determination of the purity of drugs. Text: Venable and Wheeler's *Qualitative Chemical Analysis* and the instructor's notes. Second year. *Both terms, two hours.*

10. Organic Chemistry and Toxicology. Practice is given in the preparation of organic compounds and the detection of poisons and the determination of the purity of drugs. *Spring term, three hours.*

Laboratory fee, $5.00.

OPTIONAL COURSES

The following courses are not required of students in Pharmacy, but may be elected profitably.

Elementary Physiology

Professor MACNIDER.

The study of Physiology is begun in the spring term of the first year, during which the physiology of digestion, the digestive glands, blood, respiration, metabolism, excretion, and animal heat are considered in lectures illustrated by experiments. The study is continued in the fall term of the second year by the consideration of the physiology of

the muscles and of the nervous system. During this term also the student learns the methods of experimental physiology by means of class work in the laboratory. Texts: *American Text Book*, Stewart, or Kirke. *Both terms, three hours.*

Zoology

Professor Wilson.

General Zoology. An introductory course giving an outline of the classification and structure of animals, with consideration of the fundamentals of histology, embryology, and physiology, with some consideration of biological theories; lectures with laboratory work. Text: Hertwig. *Both terms, two hours.*

Botany

Associate Professor Coker.

General Introduction to Systematic Botany, with special attention to medical plants; laboratory and field work with recitations. *Spring term, three hours.*

Chemistry

Professor Herty.

Industrial Chemistry. Lectures. The application of chemistry to the arts and industries. This course includes metallurgy, glass making, pottery, (*fall term*); food, clothing, building materials, explosives, photography, etc., (*spring term*). *Both terms, three hours.*

Agricultural Chemistry. Lectures. This course includes the chemistry of the plant and the soil, and the discussion of plant food, etc. Many specimens have been collected in the Industrial Museum to illustrate this course and the preceding one.

Mr. Hill.

Quantitative Analysis and Assaying. Laboratory work.

This course is intended to give the student a thorough grounding in analytical methods and manipulations. *Three hours.*

Professor HERTY.

Quantitative Analysis. Laboratory work. The student in this course is led further into the study and practice of analytical methods. The work may take any special direction desired by him, fitting him to be an agricultural chemist, iron chemist, manufacturing chemist, physician, druggist, or teacher of chemistry. Encouragement is given to the student to make original researches. *Five hours.*

Mr. FRY.

Determinative Mineralogy. Lectures with laboratory work. Dana's *Text-Book of Mineralogy*. *Both terms, two hours.*

Bacteriology

Professor MACNIDER.

The student learns by practical experience the methods of cultivating, staining, and identifying the principal bacteria, and their pathological significance is explained by lectures and demonstrations by inoculation of animals. In this way the chief pathogenic bacteria are studied in pure culture on the various media, after which the methods of obtaining pure culture from mixtures of bacteria are learned. The necessary manipulations are carried out by the students, who thus obtain a practical knowledge of the subject which can be gained in no other way. *Fall term, six hours.*

Students in Pharmacy have also the privilege of attending any of the regular academic courses.

THE PHARMACEUTICAL LABORATORY

OFFICERS

EDWARD VERNON HOWELL, A.B., PH.G., DIRECTOR and *Professor of Pharmacy.*

JOHN GROVER BEARD, Ph.G., *Instructor in the Pharmaceutical Laboratory.*

The rooms of the Pharmaceutical Laboratory are admirably adapted to this purpose. They are conveniently situated on the first floor, are well lighted, and well equipped with water, electric lights, and gas. To each student is assigned a desk, provided with lock and key, and containing all the apparatus necessary for the every day work of the pharmacist. In the store room is kept a supply of materials for practical work, as well as the apparatus for the more complex operations. Ample space is provided for work at the prescription counter, where practical instruction in the compounding and dispensing of prescriptions is given.

A small deposit fee is required to cover the cost of breakage of apparatus. At the end of the session this fee will be returned, less the amount of breakage.

The Pharmacy Department of the University desires to make acknowledgement to the following manufacturers for contributions of various pharmaceuticals and chemicals to be used for display and demonstration work. In order that these exhibits may be properly displayed to the students, a room has been set apart in the Pharmacy building. equipped with suitable cabinets, and in these the specimens are to be kept on permanent exhibition. The contributors are: Fairchild Bros. & Foster, of New York; Hoffman-LaRoche Chemical Works, of New York; H. K. Mulford Company, of Philadelphia; Merck & Company, of New York; Mallinckrodt Chemical Works, of St. Louis; Charles Pfizer & Company, of New York; Powers-Weightman-Rosengarten Company, of Philadelphia; E. R. Squibb & Son, of New York; Sharp & Dohme, of Baltimore; Seabury & Johnson, of New York; Smith, Kline & French Company, of Philadelphia; William R. Warner & Company, of Philadelphia; Eli Lilly & Company, of Indianapolis; Whitall, Tatum & Company, of New York.

OTHER LABORATORIES

The laboratories of Physics, Chemistry, and Biology are open to students in Pharmacy. These laboratories are all equipped

Registration

Registration will begin on Monday, June 5. All students of the Summer School are urged to be present and register on this day, as regular class work will begin promptly at 8:45 on Monday morning, June 5. There are certain preliminary arrangements necessary to be made in the way or selecting courses, securing board and lodging, and getting books, which should be attended to before class work begins. It is much better to be on hand promptly so as to begin with the class than to come in a day or two late.

Courses of Instruction

During the summer term of 1911 instruction will be offered in the following subjects: English, Mathematics, History, Latin, German, French, Physics, Educational Psychology, Secondary Education, Primary School Methods, and Library Administration. These courses are designed to meet the needs of the teachers who are striving to fit themselves for better service. The instruction is of the same high character as that of the regular term of the University. There are no fads, frills, shams, or pretenses about it. To the earnest teacher or student who desires to spend a part of his summer in serious, quiet study under the direction of competent instructors, splendid opportunities are offered.

Those Who May Be Benefited

Among those who may be benefited by the Summer School may be mentioned the following classes:

1. Teachers in high schools, and those intending to teach, who desire better general training for their work.

2. Teachers who desire special training in any branches offered. The work will be so graded and arranged that a student can make considerable progress by attending two or three summers in succession.

3. Teachers in elementary schools, or those preparing to teach, who wish to improve their general scholarship, or who wish to study the methods used with primary classes in our best schools.

4. Prospective students of the University who wish to make up deficiencies in their entrance requirements.

5. Teachers who expect to take the State examination in July for either the High School Teacher's Certificate or the Five-Year State Certificate.

Increasing Demand For High School Teachers

The growth of public high schools in North Carolina causes an increasing demand for well-equipped high school teachers and principals. During the past two years the University has had calls for over two hundred men to engage in educational work in this and other Southern States. It has been able to supply barely one-half of that number. The demand for better trained teachers is becoming more and more insistent all over the South, and it means greater opportunity for the teacher who is preparing himself to fill a higher position next year than he filled last. To be able to advance in his profession to even larger fields of usefulness should be the ambition and constant aim of every true teacher. The University is maintaining the Summer School in order that it may better serve the schools by sending into them more efficient teachers, and that it may better serve the teachers by giving them an opportunity to improve their scholarship and thus fit themselves for better work.

Examinatons and Certiificates

At the close of the term regular examinations will be held, and certificates will be issued upon the satisfactory completion of all courses.

The teachers in the Summer School who wish to apply to the State Board of Examiners for the High School Teacher's Certificate and the Five-Year State Certificate will have an opportunity to review thoroughly the main subjects on which they are to be examined, and then to take the examinations at a time when they should be best able to pass them successfully. Teachers who take either of these examinations may be excused from the regular examinations at the close of the term mentioned in the paragraph above.

The Library

The University Library, containing over 55,000 volumes and over 17,000 pamphlets, will be open daily to the students of the Summer School. Excellent opportunities are here afforded the students for wide reading and special research.

The Gymnasium

All male students of the Summer School will be afforded the privileges of the swimming pool in the gymnasium free of cost.

Board and Lodging

First class board and lodging at the University Inn (formerly Pickard's Hotel) will be offered the students of the Summer School at $5 a week, or $25 for the term of six weeks. Good board and lodging can be obtained at the village boarding houses at reasonable rates, varying from $15 to $20 per month.

Fees

No tuition fees will be charged teachers or those who are preparing themselves for teaching, but a registration fee of $3 will be required of all students of the Summer School.

Class Rooms

The classes in English will meet in the English Room, *Old East Building;* the class in Library Administration will meet in the Reading Room, *Library Building;* all others, unless otherwise announced, will meet in *Alumni Hall*, rooms on second floor.

DAILY PROGRAM

I. Chapel Attendance

Chapel exercises will be conducted in Gerrard Hall each morning at 8:30. All Summer School students are expected to attend.

II. Schedule of Recitations

8:45	11:35
Primary Methods 1	French 2
Physics 1	Latin 1
German 1	Math. (Algebra) 1
English 2	

9:45
English 1
History 2
German 2

10:40
Primary Methods 2
Physics 2
History 1
Latin 2

12:30
Library Administration
French 2
Math. (Geometry) 2
Secondary Education

Library Hours
9:30 to 12:30
3:30 to 4:00

ANNOUNCEMENT OF COURSES

ENGLISH

Professor HARRISON.

1. Grammar and Composition. Especial attention to the analysis of sentences and the application of the principles of grammar in composition. Frequent written exercises will be required, and the written work will be discussed in the classroom. Text-book: Smith's *Our Language—Grammar. Six hours a week.*

2. Literature. The literature required for entrance to the leading colleges of the United States will form the basis of this course. Methods of teaching, lectures, reading, and class discussion. *Six hours a week.*

HISTORY

Professor HAMILTON.

1. The History of England. Lectures and assigned readings. Text-book: Walker's *Essentials in English History. Six hours a week.*

2. The History of the United States to the close of Reconstruction. Lectures and assigned readings. Text-book: Hart's *Essentials in American History. Six hours a week.*

LATIN

Professor Howe.

1. Elementary course. Pronunciation, inflection, syntax of cases and verbs; special study of the subjunctive, indirect discourse, relative and conditional sentences; reading of Caesar's Gallic War. Text-book: Bennett's *Latin Grammar*. Any standard text of Caesar. *Six hours a week.*

2. Course in Vergil's Aeneid, I-VI. Translation and syntax. Text-book: Any standard text of Vergil's Aeneid. *Six hours a week.*

3. Course in Cicero's Orations against Catiline. Translation and syntax. Any standard text of the Orations against Catiline. *Three hours a week.*

4. Latin Composition. *Three hours a week.*

GERMAN

Mr. Vermont.

1. Elementary course. Grammar. Written exercises. Dictation. Translation. Text-books: Thomas's *German Grammar;* Mosher's *Wilkommen in Deutschland. Six hours a week.*

2. Advanced course. Review of Grammar. Composition. Translation. Text-books: Thomas's *German Grammar;* Wesselhoefdt's *German Exercises;* Freytag's *Die Journalisten. Six hours a week.*

FRENCH

Mr. Vermont.

1. Elementary course. Grammar. Reading of easy prose. Text books: Joynes's *Minimum French Grammar;* Chateaubriand's *Le Dernier Abencerage. Six hours a week.*

2. Advanced course. Reading of novels and dramas. Text-books: Feuillet's *Le Jeune Homme Pauvre;* Hugo's *Hernani. Six hours a week.*

MATHEMATICS

Associate Professor STACY.

1. Secondary Algebra. Lectures and assigned work embracing the introductory chapters and including Factoring, Simultaneous Equations, Exponents, Involution and Evolution, Quadratic Equations, etc. Text-book: Fisher and Schwatt's *Secondary Algebra*. *Six hours a week.*

2. Plane Geometry. Lectures and assigned work. Text-book: Wells's *Essentials of Plane and Solid Geometry*. *Six hours a week.*

3. Solid Geometry. Lectures and assigned work. Special attention given to the selection of original exercises. Text-book: Wells' *Essentials of Plane and Solid Geometry*.

PHYSICS

Professor DOUGLAS.

1. Elementary course. Mechanics of solids, liquids, and gases. Sound. *Six hours a week.*

2. Elementary course. Magnetism and electricity. Heat and light. Text-book: Millikan and Gale's *A First Course in Physics*. *Six hours a week.*

Courses 1 and 2 may be taken together.

LIBRARY ADMINISTRATION

Associate Professor WILSON.

Library administration and methods. Lectures on the organization and management of school and public libraries, book selecting; preparation of bulletins, use of reference books, reading lists, debate helps, technical library methods. Practice in the Library illustrating the details of subjects treated in the lectures. *Six hours a week.*

EDUCATIONAL PSYCHOLOGY

Professor CHASE.

Educational Psychology. Modern psychological principles

and their application to education. Lectures and readings. *Six hours a week.*

SECONDARY EDUCATION

Professor WALKER.

1. High School Organization and Administration: a study of high school curricula and methods. Lectures and assigned readings. DeGarmo's *Principles of Secondary Education* and Brown's *The American High School* will constitute the basis of this course. *Three hours a week.*

2. The Theory and Practice of Teaching. Lectures and assigned readings. This course will be based on James's *Talks to Teachers on Psychology* and Hamilton's *The Recitation*. *Three hours a week.*

ELEMENTARY SCHOOL METHODS

Miss GRAHAM.

1. Model Lessons for Beginners. Model Class work, lectures, and assigned reading. Work with children just beginning school. A class of primary grade children will be organized for the purposes of this course. Lessons in phonics, reading, language work, numbers, nature study, etc., etc., covering the general work of the first grade. *Six hours a week.*

2. Methods and Model Lessons for Grades 2 to 4. Lessons, lectures, and assigned readings, covering the general work of the second, third, and fourth grades. Sight reading, eye training, ear training, drills on the phonograms. Special attention will be given to the reading and language work of these grades. *Six hours a week.*

PUBLIC LECTURES

Each week during the Summer School there will be one or two special lectures to all students. These lectures will be

given by prominent educational workers; they will be upon topics of vital interest to every teacher and will be of genuine help to all.

For further information, apply to the Director of the Summer School, or to Dr. Thomas J. Wilson, Registrar, Chapel Hill, N. C.

STUDENTS IN THE SUMMER SCHOOL (1910)

Abernethy, Dora E.,	Chapel Hill.
Abernethy, Frances,	Chapel Hill.
Ainsley, Haywood M.,	Creswell.
Barbee, C. C.,	East Durham.
Barker, Gypsie Royal,	Durham.
Barrier, J. Kate,	Mt. Pleasant.
Beam, M. Speight,	Shelby.
Beniteau, Elizabeth,	Leaksville.
Bivens, Samuel Robert,	Monroe.
Bivens, William P.,	West Durham.
Blount, Mae W.,	Chapel Hill.
Boyer, Flora McNeill,	Bainbridge, Ga.
Bullard, M. Louise,	East Durham.
Carstarphen, Augusta C.,	Roper.
Claytor, Margaret,	Chapel Hill.
Claytor, Robert Hume,	Chapel Hill.
Cline, Lillian Lee,	Mt. Pleasant.
Cobb, Leila M.,	Goldsboro.
Cooke, Mary M.,	Rich Square.
Cuthbertson, Lillian,	Monroe.
Davenport, Aaron W.,	Creswell.
Davis, R. W.,	Durham.
Dixon, Cora M.,	Goldsboro.
Donnell, Loula H.,	Chapel Hill.
Donnell, Mary L.,	Chapel Hill.
Dowd, James E.,	Clio, S. C.
Drew, Frank, Jr.,	Live Oak, Fla.
Duncan, Joseph Lonzo,	Clayton.
Durham, Ernest Creecy,	Roscoe.
Ellis, Irma,	Cary.
Faires, Rosabelle Simonton,	Chapel Hill.

Fitzgerald, Robert Greeson,	Linwood.
Fordham, Annie L.,	Spencer.
Fowler, Lillie Dow,	Mebane.
Gattis, Elizabeth Burnett,	Chapel Hill.
Gray, Minnie,	Windsor.
Harper, Drew Sugg,	Snow Hill.
Hart, Gertrude,	Parkton.
Harwood, J. H.,	Murphy.
Henley, Aldriss Hurrill,	Harmony.
Herty, Charles Holmes, Jr.,	Chapel Hill.
Herty, Frank,	Chapel Hill.
Hill, W. Ross,	Rutherfordton.
Hodnett, Kent,	Wake Forest.
Hudson, Martha Amelia,	Smithfield.
Hunter, Wade R.,	Alexander.
Jarman, Mary,	Richlands.
Jeffcoat, Cora Pearle,	Concord.
Jones, Beverly Nicholas,	Walnut Cove.
Jones, Margaret Miriam,	Durham.
Kilpatrick, Mary K.,	Kinston.
Kornegay, Alma,	Dover.
Lamus, Patrick B.,	Lucama.
Leighton, Andrew F.,	Scotland Neck.
Leighton, Mrs. Frank,	Scotland Neck.
Link, Lottie May,	Dunn.
Llorens, Francisco,	Santiago, Cuba.
Lunsford, Blackwell,	Rutherford College
Lynch, Rachel Susan,	Chapel Hill.
Lynch, Thomas,	Chapel Hill.
McCullers, Mary Elizabeth,	Smithfield.
McGoogan, Mary Smith,	Rennert.
McIntyre, Lutie,	Troy.
Miller, Herbert Craig,	Newton.
Moses, Elizabeth,	Chapel Hill.
Nance, Paul H.,	Winston-Salem.
Overton, Annie E.,	Elizabeth City.

Pasmore, Julia,	Cary.
Pegram, Emma,	Hope Mills.
Pritchard, Maude,	Chapel Hill.
Pritchard, William N.,	Chapel Hill.
Raney, Anna Elizabeth,	Chapel Hill.
Ratcliff, Sallie Luellyn,	Duke.
Scarboro, Cleopatra,	Eagle Rock.
Scott, Luther Vernon,	Siloam.
Shuford, Norman Clifford,	Fairview.
Simpson, Jennie B.,	Elizabeth City.
Smith, Flora M.,	Duke.
Smith, Thomas Preston,	Durham.
Smyre, Clara Rhodes,	Lincolnton.
Snelson, Sarah,	Lincolnton.
Speight, Agnes G.,	Roper.
Suppe, Norman F.,	Hendersonville.
Sugg, Annie,	Chapel Hill.
Swindell, Myrtle,	Belhaven.
Sykes, Mattie,	Conway.
Sykes, Wiley Arnold,	Conway.
Taylor, George Frederick,	North Wilkesboro.
Temple, Nellie,	Chapel Hill.
Thomas, Sallie Cross,	West Durham.
Upchurch, Ethel,	Apex.
Wade, Pauline,	Dunn.
Walker, Maggie,	Seven Springs.
West, Mabel Seth,	Dover.
Whitley, George T.,	Smithfield.
Williams, Joseph A.,	Spencer.
Winston, Duncan Cameron,	Edenton.
Woodall, Hubert Cogdell,	Smithfield.
Yoder, Fred Roy,	Hickory.

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PART FIVE

THE UNIVERSITY LIBRARY
PUBLIC LECTURES
THE BYNUM GYMNASIUM
LABORATORIES
UNIVERSITY ORGANIZATIONS

THE UNIVERSITY LIBRARY

OFFICERS

Louis Round Wilson, Ph.D., *Librarian.*
Charles Lee Raper, Ph.D., *Committeeman.*
William Chambers Coker, Ph.D., *Committeeman.*
Edwin Mims, Ph.D., *Committeeman.*
William Morton Dey, Ph.D., *Committeeman.*
Randolph Archer, *Assistant Librarian.*
Foster Nugent Cox, *Assistant in the Library.*
Robert Willis Bobbitt, *Assistant in the Library.*
Walter Dorsey Barbee, *Assistant in the Library.*
Clarence Walton Johnson, *Assistant in the Library.*
Columbus Washington Eagles Pittman, *Assistant in the Library.*

The University Library contained at the end of the calendar year 1910 fifty-eight thousand two hundred and twelve volumes and about seventeen thousand six hundred pamphlets. This collection has been largely classified and catalogued according to the Dewey, or decimal system, and its contents have been rendered easily accessible by means of a thorough dictionary card catalogue.

The Library funds are expended under the direction of the Librarian, the Library Committee, and Professors in charge of Departments, with special reference to the instruction given in the University. The annual addition of books from purchase, donations, and exchanges is about thirty-seven hundred volumes, all of which are carefully classified and catalogued as they are received.

The Librarian and those assisting in the Library are in attendance to give help in any line of research or reading. A special collection of reference books is provided for general use in the reference room. At the Librarian's desk are kept complete indexes of the material to be found in the current or bound periodi-

cals. The reading rooms for the students and members of the faculty are supplied with two hundred and thirty-two of the best American and foreign periodicals and leading newspapers of the State and Nation. Brief instruction in the use of the card catalogue, the periodical indexes, and the reference books generally, is given new students at the beginning of the academic year. In addition to the general Library there are a number of departmental libraries and special seminar rooms, which are open to students who work in the departments and have need of special departmental books.

The Library is open on week days from 8:30 A. M. to 1:15 P. M., and from 2:00 P. M. to 5:00 P. M.; on week day evenings, Saturday excepted, from 7:00 P. M. to 9:30 P. M.; on Sunday from 2:30 P. M. to 4:30 P. M.; on University holidays from 3:00 P. M. to 4:00 P. M.

During the year the Library has received the hearty support of the Philanthropic and Dialectic Literary Societies, in recognition of whose long continued interest and generous aid the Library bears the official title, The Library of the University of North Carolina Endowed by the Dialectic and Philanthropic Literary Societies.

The following rules are considered necessary for the proper use of the Library. They will be enforced with strict impartiality.

Subscribers to the Library are the students and members of the faculty.

Other persons who desire to use the Library may become subscribers on payment of the regular Library fee.

The Library fee is four dollars a year, two dollars a term, or fifty cents a month.

Persons who are not subscribers may not borrow books on a subscriber's name.

Not more than three books may be charged to one name at the same time.

Fines for books kept over fourteen days (including the day of issue) will be imposed with exact regularity at the rate of five cents per day. Books borrowed for debate or for class use may

be kept out from 9:00 P. M. until 10 A. M. of the following day. After that hour they are subject to a fine at the rate of five cents per hour. The date on the pocket on fly-leaf of book is sufficient notice when the book is due.

Failure to pay fines within three weeks from time they are due will debar the delinquent from further use of the Library.

Books from the reference room must remain in the Library during Library hours. They may be loaned only at the discretion of the Librarian.

Magazines must not be removed from the Library until they are bound.

Mutilation of books or magazines, or defacement by writing in them, must be paid for by the purchase of a new copy.

Any conversation in the Library, except to obtain books desired, is forbidden.

Continued disregard for any of these rules will cause the offender to forfeit the right to use the Library.

In addition to the gifts made to the University for Library purposes for which the University has made acknowledgement, the Library wishes to acknowledge the gifts of publications from E. S. Abbott, E. G. Acheson, Alabama Department of Archives and History, Mrs. Eben Alexander, C. W. Alvard, American Association for the Advancement of Science, American Bar Association, American Branch of the Association for International Conciliation, American Free Art League, American Historical Association, American Lumberman, American Museum of Natural History, American Peace Conference, Mrs. E. M. Armfield, Association of Colleges and Preparatory Schools of the Southern States, Atlanta Carnegie Library, Audubon Society, K. P. Battle, Boston Public Library, Brotherhood of St. Andrew, California State Library Commission, California University, Canadian Government, Carnegie Foundation, Carnegie Institution, Paul Carus, W. N. C. Clarke, Chemical Laboratory, Chicago Peace Society, Chicago United Charities, Collier Cobb, C. M. Coolidge, Columbia Historical Society, Conference for Education in the South, Conference of Governors, Cornell University, Josephus Daniels, Joseph

Debar, Democratic Campaign Committee, W. B. Dowd, Edwin Durning-Lawrence, A H. Eller, Maurice Fluegel, E. K. Graham, J. A. Gray, Jr.,, Guilford Battle Ground Association, W. A. Guthrie, J. G. de R. Hamilton, G. W. F. Harper, K. P. Harrington, F. P. Hawley, M. D. Haywood, Mrs. P. E. Hines, Hispanic Society of America, J. A. Holmes, Mark Hopkins, A. M. Huntington, Illinois State Historical Society, Iowa State Historical Society, Jefferson Physical Laboratory, Johns Hopkins University, D. D. Jones, Kansas State Historical Society, W. R. Kenan, Bartholdt Landfer, Lake Mohonk Conference, Library of Congress, Library of the University of Michigan, London Company, L. P. McGehee, Maine University, Massachusetts Government, Massachusetts State Board of Charities, Merck Publishing Company, Michigan University. J. E. Mills, Edwin Mims, Missouri Botanical Garden, Mrs. E. E. Moffitt, M. H. Morgan, W. S. Myers, National Association of State Universities, National Lumberman, Nebraska State Historical Society, New Jersey State Library, New York Merchants' Association, New York State Library, M. C. S. Noble, North Carolina State Government and Officers, Ohio Society of the Sons of the Revolution, David Parks, A. H. Patterson, Pennsylvania State Historical Society, J. H. Pratt, H. S. Pritchett, G. L. Raymond, Republican Campaign Committee, M. M. Smith, United Confederate Veterans, United States Brewers' Association, United States Superintendent of Public Documents, N. W. Walker, Wisconsin State Government, Wisconsin State Historical Society, Charles Worth, Wyoming State Historical and Geological Society, Yackety Yack Board, Young Men's Christian Association, Advocate of Peace, Alumni Register, American Economist, Central Presbyterian, Charity and Children, Christian Advocate, Gospel Messenger, Hartford Seminary Record, Homiletic Review, Morganton News-Herald, Newton Enterprise, Presbyterian Standard, Progressive Farmer, Raleigh Christian Advocate, Sampson Democrat, Statesville Landmark, Tar Heel, University Magazine, Virginian-Pilot, Webster's Weekly.

LABORATORIES AND MUSEUMS

THE PHYSICAL LABORATORIES

Andrew Henry Patterson, A.M., Director and *Professor of Physics.*

Parker Hayward Daggett, S.B., *Associate Professor of Electrical Engineering.*

Vivian Leroy Chrisler, A.M., *Instructor in Physics.*

James Talmage Dobbins, *Assistant in Physics.*

Alexander Lietlejohn Feild, *Assistant in Physics.*

Gordon Wesley Thompson, *Assistant in Physics.*

The Physical Laboratory occupies the eastern half of the main floor and almost the whole of the basement floor of the Alumni Building, amounting to about eight thousand feet of floor space.

The main floor is divided into two lecture rooms, an apparatus room, laboratory for students in the general course, Physics 1, and a laboratory for X-ray and photometric work.

In the rooms of the basement are located the dynamos, motors, electrical laboratory, storage battery, and the workshop for wood and metal.

The Physical Laboratory is equipped with standard types of electrical machines: dynamos, motors, transformers, meters, switchboard, storage battery, and the usual accessories, needed for practical instruction in electrical engineering.

The electric light, central heating, and waterworks plants constitute valuable adjuncts to the laboratory. For work in practical testing there are available a 35 H. P. Ball engine, a 20 H. P. slide valve engine, two types of steam pumps, steam siphon, two gasoline engines, with calorimeters, meters, thermometers, and other accessory apparatus necessary ror making complete tests on power plants. The central power plant of the University also contains a 115 H. P. Ball and Wood engine, directly connected to a Crocker-Wheeler 3-phase generator; a 70 H. P. Skinner engine with

directly connected General Electric 3-phase generator; a De Laval steam turbine; a D'Oliver centrifugal pump, and all necessary accessories.

The old storage battery proving inadequate for the growing needs of this and other scientific departments, a new one was installed in September, 1910, consisting of sixty type E 13 cells purchased from the Electric Storage Company, of Philadelphia. This installation provides a direct current of 110 volts available for use at all times, and of any value up to 120 amperes.

CHEMISTRY HALL

Charles Holmes Herty, Ph.D., Director and *Smith Professor of General and Industrial Chemistry.*

*Alvin Sawyer Wheeler, Ph.D., *Associate Professor of Organic Chemistry.*

Robert Anderson Hall, Ph.D., *Associate Professor of Organic Chemistry.*

James Munsie Bell, Ph.D., *Associate Professor of Physical Chemistry.*

Hampden Hill, S.B., *Instructor in Chemistry.*

Charles Scott Venable, A.B., *Fellow in Chemistry.*

Robert Lee Hunter, *Assistant in Chemistry.*

William Lewis Jeffries, A.B., *Assistant in Chemistry.*

Thomas Palmer Nash, Jr., *Assistant in Chemistry.*

William Augustus Rudisill, A.B., *Assistant in Chemistry.*

The overcrowded condition of the laboratories and lecture room in Person Hall and the unsatisfactory ventilation of the laboratories made urgent the need for a larger and better arranged building for the Department of Chemistry. These facts, together with the complete plans for a new building, were laid before the Legislature in 1905 and an appropriation of $50,000 asked. The appropriation was voted, and in a short while the work of construction was under way.

The new building, Chemistry Hall, is located east of Alumni Hall and north of the New East building, facing west. By the

*Absent on leave, 1910-1911.

selection of this location good water pressure is assured for all of the laboratories in the building.

The outer walls are of salt and pepper brick laid with black mortar.

The main building, 120 x 68 x 48, comprises a first floor, a second floor, and a commodious basement. Adjoining this main building and to the rear of the centre is the lecture room, 41 x 62 x 22.

To the right on entering the main building are the office and the private laboratory of the Director, the department library, and a small lecture room: to the left are the office and private laboratory of the Associate Professor of Organic Chemistry, a large laboratory for organic chemistry, containing locker desks for twenty-four students, and a combustion room.

On the rear or east side of the first floor are the laboratories for quantitative analysis (thirty-two desks), and adjacent fume room, advanced qualitative analysis (twenty-four desks), and technical chemistry (six desks). At each end of the corridor are balance rooms.

On the second floor are the laboratories for general chemistry (sixty-six desks), qualitative analysis (sixty desks), physical chemistry (eight desks), electro-chemistry (eight desks), a research laboratory (sixteen desks), a laboratory for physiological chemistry (forty-eight desks), a fume room, and a small lecture room. At the ends of the corridor on the second floor are a balance room, preparation room, and a dark room for spectroscopic work.

In the basement are the assay laboratory, rooms for gas machine, electric furnace, technical chemistry, constant temperature, a photographic dark room, laboratory and museum for chemical mineralogy, a carpenter-shop, stock room for heavy chemicals, and a large stock room for chemicals and apparatus. From this stock room material is supplied to each floor of the building by an elevator.

Each laboratory is furnished with ample fume closets for the removal of noxious gases, while pivoted window sash insure proper ventilation of the rooms.

The entire building is heated by hot water from the central system of the University.

The main entrance hall leads direct to the lecture room, which is well lighted by high arched windows and has a seating capacity of two hundred, which can be increased somewhat as need requires. To the rear of the lecture room are a preparation room, and a museum for specimens of typical chemicals, mineral, and products illustrating the various phases of chemical industries. Above these two last rooms is a small room for filing charts, diagrams, etc., used in illustrating lectures.

The recently installed storage battery in the Department of Physics furnishes ample current for stereopticon purposes and for motors.

THE BIOLOGICAL LABORATORY

HENRY VAN PETERS WILSON, PH.D., DIRECTOR and *Professor of Zoology.*
WILLIAM CHAMBERS COKER, PH.D., *Professor of Botany.*
ORREN WILLIAMS HYMAN, A.B., *Assistant in Zoology.*
LEE FRANKLIN TURLINGTON, A.B., *Assistant in Zoology.*
JOHN ARCHIBALD MCKAY, *Assistant in Botany.*

The Biological Laboratory, which bears the name of Davie Hall, is occupied by the Departments of Zoology and Botany. The building is a rectangular structure of pepper and salt brick and is divided into a main body and two wings. The total length is 125 feet, the depth of the main body 44 feet, that of the wings 38 feet. A basement underlies the whole, above which are two floors. The main body has an additional third chamber, which extends out over the wings, forming spacious air chambers. The building faces north and south, lies to the east of the New East, and adjoins the Arboretum.

The entrance hall, on the first floor, lit with large windows on either side of the main doorway, serves for the exhibition of museum specimens of a more popular character. Back of the entrance hall are herbarium, a room for charts and other lecture apparatus, and a room for the storage of zoological specimens.

The east wing of this floor is occupied by a lecture room with a seating capacity of one hundred and twenty, the west wing by a laboratory for the elementary classes in zoology and botany. The latter laboratory is arranged for twenty-four wall tables with window in front of each table.

On the second floor the east wing is occupied by a single large laboratory for advanced work in zoology and the west wing by a similar laboratory for advanced work in botany. Each of these rooms accommodates twenty workers and is lit on three sides with twenty windows. The main building on this floor includes private work rooms for the professors of zoology and botany, two store rooms, and a library. On the third floor of the main body is a photographic studio with windows on the north side extending to the floor, and with sky-lights. The building is provided with electric lights and is heated with hot water. The furnace and fuel rooms are in the basement. Here also are fire proof incubator room, a room for micro-photography with adjoining dark room, janitor's shop, and rooms for the storage of heavy supplies. The wings in the basement are designed for the keeping of live animals and plants and for experimental work in botany and zoology. An elevator connects the basement with all floors.

THE GEOLOGICAL LABORATORY AND MUSEUM

Collier Cobb, A.M., Director and *Professor of Geology and Mineralogy.*

Joseph Hyde Pratt, Ph.D., *State Geologist and Professor of Economics.*

William Henry Fry, S.B., *Instructor in Geology.*

Charles Alexander Vogler, *Assistant in Geology.*

The Geological Laboratory occupies the first floor of the new East Building. In addition to a lecture room with a seating capacity of about ninety, there is a large laboratory supplied with working collections of minerals, rocks, and fossils, and with photographs, maps, and models illustrating geological structure. The laboratory is furnished with two petrographical microscopes, with microscopes for soil study, and with apparatus for the slicing and

polishing of rocks. Microscopic slides have been made of most of the specimens from North Carolina; and the department has, also, sections of the typical European rocks. Sections of the rocks around Chapel Hill, and the igneous rocks of the Boston Basin, made by the late Hunter Lee Harris, of the class of 1889, were given to the geological department. There is a room for photographic work.

The University possesses a collection of more than two thousand specimens of building stones, coals, and various products illustrating the economic geology of the State. These are arranged in an exhibition room of six hundred and fifty square feet of floor space. Here also are kept the sections taken with a diamond drill in the coal regions of Pennsylvania, in the region around King's Mountain, where the Summer School of Geology held its sessions, in the Dan River coal fields, and in the Triassic Rocks at Durham, N. C. A complete set of the ores of the precious metals found along the line of the Atchison, Topeka and Santa Fe Railroad is included in the collection. Valuable additions have been made to the collections of fossils also, affording increased opportunity for laboratory work in historical geology and paleontology. A small collection of tertiary type fossils from Florida, the gift of Mr. Joseph Wilcox, of Philadelphia, is the most recent addition to the paleontological collection. The collection illustrating economic geology has been largely increased.

The department library, which occupies a room adjoining the exhibition room, is supplied with State and United States Reports, the papers of working geologists, the best works upon Geology, and scientific periodicals.

UNIVERSITY ORGANIZATIONS

THE DIALECTIC AND PHILANTHROPIC LITERARY SOCIETIES

The Dialectic and Philanthropic Literary Societies were organized in 1795, the year of the opening of the University. Their existence has been inseparably linked with that of the University, and they have shown remarkable power in developing character as well as in training the intellect. They offer facilities for practice in debate, oratory, declamation, and essay writing; and their members become practically familiar with parliamentary law and usage.

Each society owns a large, handsomely furnished hall, the walls of which are hung with oil portraits of illustrious members. Meetings are held by each society every Saturday evening during the college year, admission being confined to members. Public contests in debate between the two societies are conducted twice a week, and in addition to these, there is a system of intercollegiate debates. On Monday evening before Commencement the Inter-Society Banquet is held, after which each society has its annual reunion. On Monday evening preceding Commencement day four representatives elected from the two societies have a public competion in debate, and a prize is awarded to the successful competitors.

By immemorial custom, students from the eastern half of the State usually join the Philanthropic Society, while those from the western half join the Dialectic Society. Although membership in the Societies is entirely optional, yet it is earnestly recommended by the Faculty as furnishing unusual opportunities not only for literary culture, but also for the development of self control and the power to persuade and control others.

ELISHA MITCHELL SCIENTIFIC SOOIETY

MARVIN HENDRIX STACY, A.M., *President.*
PARKER HAYWARD DAGGETT, S.B., *Vice-President.*
FRANCIS PRESTON VENABLE, PH.D., D.SC., LL.D., *Permanent Secretary and Treasurer.*
ROBERT ANDERSON HALL, PH.D., *Recording Secretary.*

The Elisha Mitchell Scientific Society holds monthly meetings during the college year for the discussion of scientific subjects. A Journal, which is the official organ of the North Carolina Academy of Science, is issued quarterly. The object of the Society is to encourage scientific research and to record such matters as pertain to the natural history of the State. The membership is at present restricted to the faculty and students of the University, and members of the staff of the Geological Survey.

At the monthly meetings, which are ordinarily held on the second Tuesday of each month, excellent opportunities are afforded the students to get beyond the ordinary routine of the class room by hearing, reading, and discussing papers on scientific subjects.

The Journal is in a measure a bulletin of the scientific laboratories of the University, and contains many articles written by research students. It is now in the twenty-sixth year. The volumes already issued contain twenty-five hundred pages. By the exchange of the Journal with more than three hundred scientific journals and periodicals, over ten thousand books and pamphlets have been collected, all of which are arranged in the University Library.

THE NORTH CAROLINA HISTORICAL SOCIETY

JOSEPH GREGOIRE DE ROULHAC HAMILTON, PH.D., *Presiding Professor and Permanent Secretary.*
HENRY MCGILBERT WAGSTAFF, PH.D., *Presiding Professor.*

The North Carolina Historical Society was founded in 1833 by Governor David L. Swain. When Governor Swain became President of the University, the Society was moved from Raleigh to Chapel Hill. Under his leadership it became the centre of his-

torical work in the State and the medium of many notable contributions to the history of the State. On March 22, 1875, through the activity of Kemp Plummer Battle, LL.D., the Society was chartered by an act of the General Assembly. The purpose of the Society is to collect, classify, and publish material illustrative of the history of the State. The Society possesses a valuable collection of books, pamphlets, manuscripts, newspaper files, coins, and other subjects of historic interest. The educational aim of the Society is to create a love for historical study and to give training in scientific methods of historical investigation. To this end meetings are held monthly in the History lecture room, at which papers, based on original research, are read and discussed. All members of the University are eligible for membership.

THE PHILOLOGICAL CLUB

James Finch Royster, Ph.D., *President.*
William Stanley Bernard, A M., *Vice-President.*
George Mark Sneath, *Secretary.*
Louis Round Wilson, Ph.D., *Permanent Secretary and Treasurer.*

The Philological Club meets on the first Tuesday evening of each month during the college year. Its membership consists of the instructors and advanced students in the language departments of the University. The object of the Club is to stimulate original investigation in philology and to afford an opportunity for the interchange of views on subjects relating to such work. At each meeting papers are read and discussed. The Club publishes a journal of two issues a year whose contents are contributed by the members. All persons interested in the work of the Club are invited to attend its meetings.

DER DEUTSCHE VEREIN

Palmer Cobb, Ph.D., *President.*

The Verein was organized with the view of stimulating interest among the officers and students of the University in all topics pertaining to German life. Weekly meetings are held throughout the

year, at which the German language only is employed. Subjects of general interest pertaining to German literature, history, art, and politics are discussed. An effort is made also to provide students of German with an opportunity to perfect their pronunciation and to improve their control of the spoken language. It is part of the purpose of the Verein to arrange from time to time for public lectures in German. All officers and students of the University interested in the study of German are eligible to membership.

LE CERCLE FRANCAIS

William Morton Dey, Ph.D., *President.*

John Archibald McKay, *Vice-President.*

Oliver Towles, A.B., *Permanent Secretary.*

Le Cercle Francais holds weekly meetings at which topics of general interest pertaining to French literature, and French life, manners, and customs are discussed. The French language is employed exclusively. It is the aim of the club to stimulate interest in the French Language, to provide its members with an opportunity to hear idiomatic French spoken, and to use the language with more facility. All officers and students of the University interested in the study of French are eligible to membership.

MUSICAL ASSOCIATION

William Burwell Ellis, *President.*

Marshall B. Wyatt, *Vice-President.*

Robert S. Hanes, *Business Manager.*

James Rowland Wildman, *Secretary and Treasurer.*

The aim of the Association is to foster the love of music and to afford opportunity of instruction to those interested in music. The organization consists of an orchestra, a brass band, a mandolin and a glee club, which are representative of the musical talent of the University.

THE UNIVERSITY COUNCIL

W. A. Dees, *President*, President of the Senior Class.

A. D. Folger, *Secretary*, President of the Junior Class.

R. W. Scott, President of the Sophomore Class.

G. A. Wheeler, President of the Second Year Medical Class.

F. J. Hunnicut, President of the Second Year Pharmacy Class.

C. B. Ruffin, A.B., Representative from the Law Class.

G. W. Thompson, (elected by Council) Representative from the Senior Class.

R. G. Stockton, Representative from the Student Body at Large.

The University Council is the head of the honor system. It is the concrete expression of the moral University, the student instrument of self-government. Its members being elected of the students by the students, it is grounded upon, and gives expression to, student sentiment. The Council is not an organization of policemen, nor is it based upon a system of espionage. When any student is felt by his fellow students to be unworthy to remain in the University, the Council takes cognizance of this feeling. It examines into the matter, finds the facts in the case, and decides upon the justice of that feeling. If the student is found guilty of conduct unworthy of a University man, he is requested by the Council to leave the University. For example, if it becomes known among the students that a man has been guilty of cheating upon examination he is disgraced in the eyes of the University community; and the students without hesitation, through their organ of expression, the Council, demand that he forthwith leave the University. The student sentiment expresses itself in this way not only in case of so flagrant a violation of the honor system as cheating, but also in cases of continued drunkenness, gambling, and such other forms of misconduct Thus it can be seen that the student body has an effective system of self-government, that the motive power of this self-government is student sentiment, and that the organ of expression of this sentiment is the University Council.

YOUNG MEN'S CHRISTIAN ASSOCIATION

Edgar W. Turlington, *President.*
David B. Bryan, *Vice-President.*
Henry C. Smith, *Recording Secretary.*
George Graham, *Treasurer.*
Edmond P. Hall, A.B., *General Secretary.*

The University Young Men's Christian Association, with its centrally located House as a meeting place and home for the students; with its work for new students; with its social receptions; with its annually published handbook, directory, calendar; with its lyceum course; with its support of eight Sunday schools; with its self-help department; with its semi-weekly religious meetings; with its ministerial and missionary clubs; with its 352 members; with its 315 men enrolled in mission study; with its 375 men enrolled in Bible study; the Young Men's Christian Association through these channels is an organized agency for usefulness and an aggressive force for morality in the University life.

However, "the Young Men's Christian Association may not be viewed," says a member of the faculty, "merely as an institution for the conduct of mission work, Bible study and religious meetings. Besides these excellent works which it shares with the churches, it is unique as a democratic student organization wholly given up to solving problems of right living. Its energy, sanity, and devotion have made it the most prominent and efficient organization in the college and the most benificent influence in the life of the college community.

Bible Courses

1. Studies in the Life of Christ (Bosworth)
   Leaders: R. W. Bobbitt, J. D. Boushall, C. K. Burgess, A. L. Feild (Phi Delta Theta Group), F. N. Cox, T. M. Price, C. W. Johnson, E. C. Ward, C. E. Norman, W. F. Taylor, J. G. Walker, L. H. Williams, H. H. Hargrett, (Kappa Alpha Group), W. B. Rodman, Jr., (Alpha Tau Omega Group), Roy T. Brown.

2. Old Testament Characters (White)
   Leaders: W. L. Cooper, Jr., E. W. Turlington, Horace Sisk, D. B. Bryan, W. H. Beckerdite (Law Group), F. Witherington (Beta Theta Pi Group), C. L. Keeble (Sigma Nu Group).
3. Life of St. Paul (Leacock)
   Leaders: D. L. Rights, J. T. Dobbins, L. F. Turlington, J. L. Eason, H. B. Marrow, T. M. Ramsaur, P. H. Gwynn, I. H. Hughes.
4. Normal Class Leaders: Rev. W. R. Smith, Rev. R. W. Hogue, Dr. Edwin Mims.

Mission Courses

The Decisive Hour of Christian Missions.
The Challenge of the City, by Prof. A. H. Patterson.
The Stewards of the King.

PART SIX

COMMENCEMENT
LIST OF STUDENTS
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SCHEDULES
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STUDENTS (1910-1911)

Graduates

NAME	YEAR	RESIDENCE

Bivens, William Patterson, *First*, Durham.
English, Pedagogy, Economics. Candidate for A. M.

Broadfoot, Thomas Marcellus, *First*, Honey Grove, Tex.
A. B., 1910, East Texas Normal College. Economics, Philosophy, English. Candidate for A. M.

Brown, Levi Ames, *First*, Greenville.
A. B., 1910. English, Philosophy. Candidate for A. M.

Costner, Jonas McAulay, Jr., *Second*, Chapel Hill.
A. B., 1909. Mathematics, Physics. Candidate for A. M.

Eagles, Theophilus Randolph, Jr., *First*, Chapel Hill.
A. B., 1908. Mathematics, Economics, Physics. Candidate for A. M.

Faires, Rosabelle Simonton, *Second*, Chapel Hill.
A. M., 1909. German.

Fonville, Claude Cleveland, *First*, Burlington.
Ph.B., 1910, Elon College. Economics, History, English. Candidate for A. M.

Fry, William Henry, *First*, Chapel Hill.
A. B., 1910. Chemistry, Geology, Mathematics.

Garrett, Cecil Clark, *First*, Julian.
A. B., 1910. Economics, Philosophy, English. Candidate for A. M.

Hathcock, William Henry, *First*, Albemarle.
Geology, Economics, Chemistry. Candidate for A. M.

Henry, George Kenneth Grant, *Second*, Chapel Hill.
A. B., 1900, A. M., 1904, Hamilton College. Latin, French, English. Candidate for Ph.D.

Hill, Hampden, *First*, Chapel Hill.
S. B., 1907. Chemistry, Physics. Candidate for S. M.

Hogue, Richard Wallace, *Third*, Chapel Hill.
A. B., 1897. University of the South. English. Candidate for Ph.D.

Hyman, Orren Williams, *First*, Tarboro.
A. B., 1910. Zoology, Botany. Candidate for A. M.

Jeffries, William Lewis, *First*, Jefferson City, Tenn.
A. B., 1910. Chemistry, Physics, Economics. Candidate for A. M.

Kitasawa, Shinjiro, *First*, Tokyo, Japan.
A. B., 1910, Waseda University. Economics, English, History. Candidate for A. M.

Lasley, John Wayne, Jr., *First*, Burlington.
A. B., 1910. Mathematics, Physics, English. Candidate for A. M.

Lineberger, Abel Clarence, *First*, Gastonia.
A. B., 1909, Lenoir College. English, Zoology, Botany. Candidate for A. M.

McGoogan, John Archibald, *First*, Shannon.
English, Philosophy, Economics. Candidate for A. M.

Nash, Thomas Palmer, Jr., *First*, Elizabeth City.
A. B., 1910. Chemistry, Philosophy, English. Candidate for A. M.

Pritchard, Maude, *First*, Chapel Hill.
A. B., 1909, Elon College. English, German, Pedagogy. Candidate for A. M.

Royall, William Richard, *Third*, Chapel Hill.
Trinity College. English, Philosophy.

Venable, Charles Scott, *First*, Chapel Hill.
A. B., 1910. Chemistry, English, Zoology. Candidate for A. M.

Warren, William Franklin, *First*, Prospect Hill.
A. B., 1910, Elon College. Economics, English, History. Candidate for A. M.

Welborn, Edgar Strickland, *Second*, Thomasville.
A. B., 1910. Economics, Pedagogy, English. Candidate for A. M.

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Senior Class

Alexander, Odom,	Arts,	Charlotte.
Allison, James Richard,	Arts,	Davidson River.
Barbee, Connie Cazette,	Arts,	East Durham.

Battle, John Manning,	Arts,	Rocky Mount.
Belk, William Parks,	Arts,	Charlotte.
Bivens, William Patterson,	Arts,	Durham.
Brown, Roy Tilson,	Science,	Erwin, Tenn.
Bryan, Daniel Bunyan,	Arts,	Apex.
Colvard, Joseph Bower,	Arts,	Jefferson.
Cooper, Williamson Lee, Jr.,	Arts,	Graham.
Cowles, Joseph Sanford,	Arts,	Wilkesboro.
Dees, William Archie,	Arts,	Pikeville.
Dickson, Paul,	Arts,	Raeford.
Dobbins, James Talmage,	Arts,	Rockford.
Duls, Ferdinand John,	Arts,	Wilmington.
Eason, Joshua Lawrence,	Arts,	Stantonsburg.
Ellis, William Burwell,	Science,	Winston-Salem.
Feild, Alexander Littlejohn,	Arts,	Raleigh.
George, Wesley Critz,	Arts,	Elkin.
Graham, George,	Arts,	Charlotte.
Guess, William Conrad,	Arts,	Apex.
Gunter, Charles Walker,	Arts,	Sanford.
Halliburton, John Brevard,	Arts,	Charlotte.
Hardison, Osborne Bennett,	Arts,	Fayetteville.
Harris, John Warton,	Arts,	Reidsville.
Hathcock, William Henry,	Arts,	Albemarle.
Horsfield, Margaret Bennett,	Arts,	Oxford.
Hughes, Israel Harding,	Arts,	Chapel Hill.
Hunter, Robert Lee,	Science,	Afton.
Jarman, Mary,	Arts,	Richlands.
Jones, Mary Best,	Arts,	Chapel Hill.
Jones, William Henry,	Arts,	Yanceyville.
Joyner, William Thomas,	Arts,	Raleigh.
Koiner, Junius Spaeth, Jr.,	Science,	Conover.
Lee, Joseph Raymond,	Arts,	Mount Olive.
Leonard, Samuel Leonard,	Arts,	Lexington.
Llorens, Francisco,	Science,	Santiago de Cuba.
Lyon, Henry Wise,	Arts,	Windsor.
McCulloch, Edgar Franklin, Jr.,	Arts,	White Oak.
McGoogan, John Archibald,	Arts,	Shannon.

McIntosh, Charles Eugene,	Arts,	Denver.
McKay, John Archibald,	Arts,	Buie's Creek.
Mann, Grover Carlisle,	Arts,	Scaly.
Mullican, Naaman Spencer,	Arts,	Clemmons.
Oliver, James Frank,	Arts,	Mount Olive.
Palmer, Gus,	Arts,	Gulf.
Rhodes, George Washington,	Arts,	Riverdale.
Roberson, Hoyt,	Arts,	Polloksville. [Cuba]
Rodriguez, Eduardo Francisco,	Science,	Sagua la Grande,
Rudisill, William Augustus,	Science,	Hildebran.
Shields, John Montgomery,	Arts,	Enfield.
Slade, Thomas Bog, Jr.,	Science,	Hamilton.
Small, Walter Lowry,	Arts,	Elizabeth City.
Smith, Richard Raymond,	Science,	Rock Hill, S. C.
Solomon, Harry Meyer,	Arts,	Wilmington.
Stewart, Barney Cleveland,	Arts,	Lancaster, S. C.
Stockton, Richard Gordon,	Arts,	Winston-Salem.
Taylor, Walter Frank,	Arts,	Faison.
Thomas, William Renn,	Arts,	Hiddenite.
Thompson, Cyrus, Jr.,	Arts,	Jacksonville.
Thompson, Gordon Wesley,	Arts,	Spray.
Tillett, John,	Arts,	Charlotte.
Trotter, Benjamin Carter,	Arts,	Reidsville.
Turlington, Edgar Willis,	Arts,	Smithfield.
Vogler, Charles Alexander,	Arts,	Winston-Salem.
Walker, Joseph Gabriel,	Arts,	Graham.
Ward, Eugene Carroll,	Arts,	Waynesville.
Webb, Richard Thompson,	Arts,	Bell Buckle, Tenn.
Whitaker, Lyman Beckwith,	Arts,	Winston-Salem.
Williams, Clawson Lee,	Arts,	Sanford.
Williams, Edward Locke,	Arts,	Greensboro.
Williams, Louis Hicks,	Arts,	Faison.
Williard, Charles Wilson,	Science,	Winston-Salem.
Wilson, Louise Agatha,	Arts,	Waynesville.
Witherington, Isham Faison,	Arts,	Faison.
Wood, John Elliott,	Arts,	Elizabeth City.

Wyatt, Marshall Boylan,	Arts,	Durham.
Zollicoffer, Algernon Augustus,	Arts,	Henderson.
Zollicoffer, Jere Perry,	Arts,	Henderson.

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JUNIOR CLASS

Atkinson, Alexander Morse,	Science,	Enfield.
Bailey, Karl Braswell,	Arts,	Elm City.
Barbee, Walter Dorsey,	Arts,	Morrisville.
Barker, Frank Pendleton,	Arts,	Pembroke, Ky.
Barnhardt, Eugene Columbus, Jr.,	Arts	Concord.
Blue, Alexander McNeill,	Arts,	Carthage.
Bobbitt, Robert Willis,	Arts,	Henderson.
Buchan, Edward Robertson,	Arts,	Manly.
Burgess, Caleb Kight,	Arts,	Old Trap.
Burgwin, Kenneth Ogden,	Arts,	Pittsburgh, Pa.
Carter, Walter,	Science,	Salisbury.
Cates, Clyde Lucius.	Arts,	Chapel Hill.
Cheshire, James Webb,	Arts,	Raleigh.
Claytor, Robert Hume,	Arts,	Chapel Hill.
Clingman, John Burton,	Science,	Winston-Salem.
Cobb, William Battle,	Arts,	Chapel Hill.
Cooke, Charles Spurgeon,	Arts,	Charlotte.
Cox, Foster Nugent,	Arts,	Leaksville.
Cox, Richard Benjamin,	Arts,	Washington.
Craven, James Rowland,	Arts,	Charlotte.
Craver, Henry Cleveland,	Arts,	Lexington.
Crutchfield, William Jesse,	Arts,	Greensboro.
Daniel, James Manly, Jr.,	Arts,	Denton.
Dawson, Joseph Green,	Arts,	Newbern.
Denton, Beecher Tate,	Arts,	Charlotte.
Doub, Henry Ward,	Arts,	Tobaccoville.
Drane, Frederick Blount,	Arts,	Edenton.
Falkener, William White,	Arts,	Warrenton.
Folger, Alonzo Dillard,	Arts,	Dobson.
Freeman, John Webster,	Arts,	Mooresville.
Freeman, Robert Alexander,	Arts,	Dobson.
Gattis, Samuel Malette, Jr.,	Arts,	Hillsboro.

Graham, Alexander Hawkins,	Arts,	Hillsboro.
Graham, Augustus Washington, Jr.,	Arts,	Oxford.
Graves, William,	Arts,	Mount Airy.
Gwynn, Price Henderson, Jr.,	Arts,	Leaksville.
Hackney, James Acra,	Arts,	Wilson.
Hall, Roger Baker,	Arts,	Lenoir.
Hanes, Robert March,	Arts,	Winston-Salem.
Hendrix, William Franklin,	Arts,	Unionville.
Henry, Vance,	Arts,	Lilesville.
Higgins, Carlisle,	Arts,	Eunice.
Hodgin, Angus James,	Arts,	Red Springs.
Hooker, Frank Bruce,	Arts,	Greenville.
Hossfeld, Frederick William, Jr.,	Arts,	Morganton.
Hossfeld, William Emil,	Arts,	Morganton.
Hough, Frank,	Arts,	Birmingham, Ala.
Hunter, Fred Caldwell,	Arts,	Newell.
Isley, Blake Elliott,	Arts,	Burlington.
James, Fairley Patterson,	Arts,	Laurinburg.
Johnson, Clarence Walton,	Arts,	Four Oaks.
Johnston, Leslie Newcurk,	Arts,	Wilmington.
Knight, Burke Haywood,	Arts,	Williamston.
Lanier, James Conrad, Jr.,	Arts,	Greenville.
Larkin, John Tyer,	Arts,	Carthage.
Lassiter, Jesse Cleveland,	Arts,	Tobaccoville.
Llorens, Felix Luciano,	Science,	Santiago de Cuba.
Llorens, Tomas Vicente,	Science,	Santiago de Cuba.
Lockhart, John Clegg,	Arts,	Chapel Hill.
Lyon, Brockton Reynolds,	Science,	Greensboro.
McAden, Joel Jenkins,	Arts,	Charlotte.
McLean, Ernest Cobb,	Arts,	Gibsonville.
McLean, Robert Clay,	Science,	Brevard.
Marrow, Henry Burwell,	Arts,	Henderson.
Martin, Herbert Lee,	Science,	Elizabeth City.
Moore, William Peter,	Arts,	Fonta Flora.
Morgan, Lawrence Nelson,	Arts,	Goldsboro.
Morris, James Ward, Jr.,	Arts,	Port Tampa, Fla.
Moser, Ira Cleveland,	Arts,	Rock Creek.

Norman, Clarence Edward,	Arts,	Concord.
Oates, Jack Cotten,	Arts,	Tarboro.
Orr, James Lawrence,	Arts,	Mars Hill.
Padgett, James Absalom,	Science,	Old Fort.
Parish, Henry Lynch, Jr.,	Science,	Hillsboro.
Parker, Robert Hunt,	Arts,	Enfield.
Parsley, William Murdock,	Arts,	Wilmington.
Patterson, Earl Victor,	Arts,	Burlington.
Peele, Rennie,	Arts,	Burgaw.
Phillips, James Dickson,	Arts,	Meredith, Fla.
Pittman, Columbus Washington	Eagles, Arts,	Whitakers.
Price, Thomas Moore,	Arts,	Madison.
Rand, James Hall,	Arts,	Smithfield.
Ray, Hubert Roy,	Arts,	Raleigh.
Reece, Joseph Thaddeus,	Arts,	Yadkinville.
Riggs, Henry Eugene,	Arts,	Dobson.
Roberson, Charles Abram,	Arts,	Robersonville.
Rogers, William White,	Arts,	Timberlake.
Royster, Thomas Sampson,	Arts,	Townsville.
Sloan, Jesse Richardson,	Arts,	Franklin.
Smith, Henry Clark,	Arts,	Charlotte.
Stacy, Lucius Eugene, Jr.,	Arts,	Trinity.
Stephenson, Brevard Doty,	Arts,	Charlotte.
Tanner, Kenneth Spencer,	Arts,	Charlotte.
Teague, Claude Edward,	Arts,	Cameron.
Thompson, Earl Asbury,	Arts,	Mount Holly.
Turnage, David Lee,	Arts,	Farmville.
VanPoole, Robert Linn,	Arts,	Salisbury.
Vogler, Herbert Augustus,	Arts,	Winston-Salem.
Voils, Thaddeus Williams,	Science,	Mooresville.
Wakeley, William Easton,	Science,	Orange, N. J.
Wallace, Fitzhugh Ernest,	Arts,	Kenansville.
Warren, Edgar Poe,	Arts,	Bushy Fork.
Wellons, Elmer James,	Arts,	Smithfield.
West, Noel Elliott,	Arts,	Salemburg.
Wharton, Cyrus Richard,	Arts,	Gibsonville.
Whitaker, John Clarke,	Arts,	Winston-Salem.

White, Moses Andrew,	Arts,	Mooresville.
Whitney, Floyd Gilbert,	Arts,	Bessemer City.
Wildman, James Rowland,	Arts,	Chapel Hill.
Willcox, Edmund Harmon,	Arts,	Carthage.
Winston, Robert Watson, Jr.,	Arts,	Raleigh.
Wood, George Collins,	Arts,	Edenton.

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SOPHOMORE CLASS

Alderman, Ernest Hamlin,	Arts,	Greensboro.
Allen, Connor Middleton,	Arts,	Kinston.
Armstrong, Cleaton Otis,	Arts,	Ayden.
Bagwell, James Edgar,	Arts,	Loray.
Barbour, Swade Emmett,	Science,	Clayton.
Basnight, Stein Hughes,	Arts,	Newbern.
Bellamy, Emmett Hargrove,	Arts,	Wilmington.
Bennett, Paul Archer,	Arts,	Winston-Salem.
Bivens, Samuel Robert,	Arts,	Monroe.
Blalock, David Remus,	Arts,	Rougemont.
Blalock, Merritt Edward, Jr.,	Science.	Norwood.
Boushall, Joseph Dozier, Jr.,	Arts,	Raleigh.
Bryan, Paul Roby,	Science,	Goldsboro.
Buchanan, Grant McDonald,	Arts,	Concord.
Buckley, Melville Lincoln,	Science,	Weirsdale, Fla.
Burch, Philip,	Arts,	Sellars, S. C.
Burwell, William Armistead, Jr.,	Science,	Warrenton.
Busby, John Carroll,	Arts,	Salisbury.
Byrd, Willie Talmage,	Arts.	Mount Olive.
Calder, Hugh Courtenay,	Arts,	Wilmington.
Caldwell, Joseph Yongue,	Arts,	Statesville.
Carmichael, George,	Arts.	Wilmington.
Carrington, George Lunsford,	Arts,	Durham.
Carter, Carnie Blake,	Science.	Morganton.
Carter, James Washington,	Arts,	Morganton.
Childs, Wade Hampton,	Arts,	Lincolnton.
Clarke, Wilfong Waldron,	Arts,	Morganton.
Clinard, Jones Weston,	Arts,	Hickory.

Clinard, Walter Bascom,	Arts,	High Point.
Cook, Benjamin Edwards,	Science,	Muskogee, Okla.
Cook, William Jones,	Arts,	Muscogee, Okla.
Cordon, Joseph Palamountain,	Science,	Clayton.
Coulter, Ellis Merton,	Arts,	Connelly Springs.
Coulter, Victor Aldine,	Science,	Newton.
Cowan, Lawrence Haughton,	Arts,	Durham.
Cowell, Charles Fowler,	Arts,	Bayboro.
Craig, Gillam,	Arts,	Monroe.
Davenport, Ralph Warren,	Arts,	Mount Holly.
DeVane, Thomas Ashford,	Arts,	Red Springs.
Ellington, Walter Clink,	Science,	Chapel Hill.
Euless, Fields Lilborn,	Arts,	Bell Buckle, Tenn.
Fenner, James Paull,	Arts,	Raleigh.
Forney, Welborne Johnson,	Arts,	Greensboro.
Freeman, George Kirby,	Science,	Goldsboro.
Gray, Robert Frederick,	Arts,	Wadesboro.
Grimsley, Harry Barnette,	Arts,	Greensboro.
Gunter, Laughton Bruce,	Arts,	Holly Springs.
Hamilton, Alvah L.,	Arts,	Atlantic.
Hargrett, Haines Hilsman,	Arts,	Sylvester, Ga.
Harris, Elisha Carter,	Arts,	Elizabeth City.
Harry, Woodfin Grady,	Arts,	Grover.
Hatcher, John Thomas,	Arts,	Rose Hill.
Hatcher, Martin Armstead,	Arts,	Snow Hill.
Hedrick, Howell,	Arts,	Taylorsville.
Hemphill, Frederick Herbert,	Science,	Nebo.
Hine, Ira Walter,	Science,	Old Town.
Hobgood, Andrew Jackson, Jr.,	Arts,	Battleboro.
Hoke, Clarence Ballew,	Science,	Lenoir.
Hoover, Troy Jay,	Arts,	High Point.
Howard, Fred Ervin,	Arts,	Monnt Holly.
Huffman, Robert Obediah,	Arts,	Morganton.
Hughes, John Winder,	Arts,	Black Mountain.
Hughes, Thomas Spurgeon,	Arts,	Elizabeth City.
Hunter, John Speight,	Arts,	Greensboro.
Huske, Benjamin Robinson, Jr.,	Arts,	Fayetteville.

Ingram, Mitchell Ray,	Arts,	Taylorsville.
Isley, Robert Waldon,	Arts,	Liberty.
Johnston, Richard Horace,	Arts,	Charlotte.
Johnson, William Harrison,	Arts,	Rutherwood.
Jones, William Myers,	Arts,	Charlotte.
Joyner, Elisha Wiley,	Arts,	Nashville.
Jurney, Robert Campbell,	Arts,	Winston-Salem.
Kelly, James Clyde,	Arts,	Carthage.
Kennedy, Frank Hunter,	Arts,	Houstonville.
King, Robert Ruffin, Jr.,	Arts,	Greensboro.
Kirksey, William Albert,	Arts,	Morganton.
[illegible]ton, John Madison,	Science,	Winston-Salem.
[illegible]Luke,	Arts,	Williamston.
[illegible]h, John Franklin,	Arts,	Burlington.
McCabe, Joseph Levering,	Arts,	Elizabeth City.
McEachern, Archibald McLeod,	Science,	Jacksonville, Fla.
McIver, John Wesley,	Science,	Sanford.
McIver, Monroe Anderson,	Arts,	Gulf.
McKay, Arnold Artemus,	Arts,	Maxton.
McKay, John Archibald,	Science,	Red Springs.
Manning, Horace Lee,	Science,	Wilson.
Marks, Albert Rosenthal,	Arts,	Newbern.
Mason, George Bason,	Arts,	Dallas.
Mebane, Banks Holt,	Arts,	Spray.
Merritt, Rufus Gray,	Arts,	Greensboro.
Morrison, Fred Wilson,	Arts,	Spencer.
Murchison, Bryan Cameron,	Arts,	Charleston, S. C.
Murchison, David Reid,	Arts,	Wilmington.
Norwood, Thomas Hart,	Arts,	Goldsboro.
Overcash, James Oliver, Jr.,	Arts,	Statesville.
Page, Thaddeus Shaw,	Arts,	Biscoe.
Parker, John Lloyd,	Arts,	Ahoskie.
Peele, Thomas Norfleet,	Arts,	Lewiston.
Perrett, Virgil Addison,	Arts,	[illegible] Whitsett.
Petteway, Hubert Connor,	Arts,	[illegible] Freeman, Fla.
Phillips, Guy Berryman,	Arts,	[illegible] Tampa, Fla.
Phillips, Jasper Louis,	Science,	Kinston.

Porter, Andrew Lindsay, Jr.,	Arts,	Rural Retreat, Va.
Post, William Nicholas,	Arts,	Wilmington.
Proctor, Ivan Marriott, Jr.,	Arts,	Raleigh.
Quincy, Cary Perry,	Arts,	Merry Hill.
Ramsaur, Thomas Michael,	Arts,	China Grove.
Rhodes, Leland Brown,	Science,	Chapel Hill.
Richardson, David Carl,	Science,	Beaufort.
Rights, Douglas LeTelle,	Arts,	Winston-Salem.
Ritch, Marvin Lee,	Arts,	Charlotte.
Royster, James Hunt,	Arts,	Townsville.
Sawyer, Roland M.,	Arts,	Elizabeth City.
Scarborough, James Blaine,	Arts,	Mount Gilead.
Scott, Luther Vernon,	Arts,	Siloam.
Scott, Reece Webster,	Arts,	Monroe.
Shamburger, Lacy Lee,	Arts,	Biscoe.
Shofner, Howard Butler,	Arts,	Shelbyville, Ten .
Sisk, Horace,	Arts,	Waco.
Sloan, Robert Rowland,	Arts,	Charlotte.
Smith, Peyton McGuire,	Arts,	Elizabeth City.
Spainhour, Carl Michael,	Arts,	Morganton.
Spears, Marshall Turner,	Arts,	Lillington.
Spencer, Samuel Addison,	Science,	Asheboro.
Stockton, Gilchrist Baker,	Arts,	Jacksonville, Fla.
Stokes, Walter, Jr.,	Arts,	Nashville, Tenn.
Story, Thomas Edgar,	Arts,	Blowing Rock.
Stough, Samuel Tertius,	Arts,	Cornelius.
Strange, Robert, Jr.,	Arts,	Wilmington.
Stubbs, Harry Murden,	Arts,	Williamston.
Swink, Jonas Herman,	Arts,	Woodruff, S. C.
Tillett, William Smith,	Arts,	Charlotte.
Totten, Henry Rowland,	Arts,	Yadkin College.
Townsend, Jackson,	Arts,	Marietta.
Tunis, Charles White,	Science,	Elizabeth City.
Vann, Norman St. George,	Arts,	Charlotte.
Vanstory, Robert McLean,	Arts,	Greensboro.
Walker, Daniel Joshua,	Arts,	Union Ridge.
Weaver, Fleming Ross,	Science,	Greensboro.

Whitfield, Lewis Evander,	Science,	Clinton.
Wiggins, Archibald Lee Manning,	Arts,	Durham.
Williams, Isham Roland,	Arts,	Faison.
Wilson, Albert Robert, Jr.,	Arts,	Greensboro.
Wilson, Carl,	Arts,	Greenville.
Wilson, George Pickett,	Arts,	Soudan, Va.
Woltz, Claude Bernard,	Arts,	Dobson.
Woody, Thomas Brooks,	Arts,	Bethel Hill.
Workman, John Hillary Andrew,	Arts,	Cherryville.
Yarboro, John Archibald,	Arts,	Cary.
Yelverton, Emmor Harrison,	Arts,	Goldsboro.
Young, William Leslie,	Science,	Lexington, Va.

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FRESHMAN CLASS

Abernethy, Lonnie Lee,	Science,	Charlotte.
Alexander, Willie Trimigan,	Arts,	Creswell.
Allen, Reynold Tatum,	Arts,	Kinston.
Allred, Joseph Henry,	Arts,	Mount Airy.
Andrews, Allen Boykin,	Arts,	Mount Olive.
Andrews, Carlton Austin,	Science,	Statesville.
Andrews, Troy Monroe,	Arts,	Chapel Hill.
Angel, Lewis,	Arts,	Franklin.
Applewhite, Blake Deans,	Arts,	Wilson.
Armfield, Roy Hanes,	Arts,	Greensboro.
Askew, Grady Daniel,	Arts,	Harrellsville.
Aycock, Benjamin Franklin,	Arts,	Fremont.
Ballenger, Richard Edward,	Arts,	Tryon.
Battle, James Wilson,	Arts,	Montgomery, Ala.
Beam, William Speight,	Arts,	Shelby.
Bell, Reuben Holland,	Arts,	Swan Quarter.
Blackmer, Walter Steele, Jr.,	Arts,	Salisbury.
Blackstock, Clarence Ernest,	Arts,	Stocksville.
Boddie, Claude Lee, Jr.,	Science,	Chapel Hill.
Bonner, Octavius Blanchard,	Arts,	Aurora.
Bourne, Henry Clark,	Arts,	Tarboro.
Boykin, Robert Stanley,	Arts,	Wilson.

Bright, Oliver Jay,	Arts,	Snowden.
Brooks, Brown Wilson,	Arts,	Unionville.
Burke, James Preston,	Arts,	Bessemer City.
Calmes, James Drayton,	Arts,	Greenville, S. C.
Campbell, Edgar Thomas,	Arts,	Jessama.
Cansler, John Scott,	Arts,	Charlotte.
Carlton, David Hill,	Arts,	Boomer.
Chambers, Joseph Lenoir, Jr.,	Arts,	Charlotte.
Clark, Daniel Russell,	Arts,	Tarboro.
Clark, George Thomas,	Arts,	Wilmington.
Clark, John Astor,	Arts,	Grimesland.
Cobb, Collier, Jr.,	Arts,	Chapel Hill.
Collins, Hubert Walter,	Science,	Holly Springs.
Conroy, Frank Davies,	Science,	Cullowhee.
Cox, Clifford Newton,	Arts,	Ashboro.
Cox, Henry Leon,	Science,	Cullowhee.
Craver, William Everett,	Arts,	Spartanburg, S.C.
Credle, Willie Frontis,	Arts,	Swan Quarter.
Curtis, Thomas, Jr.,	Arts,	McMinnville, Tenn.
Darden, Paul Clifford,	Arts,	Fremont.
Davis, William Henry,	Arts,	Wilson.
Dixon, Minton Hughes, Jr.,	Arts,	Edenton.
Downing, Fred Blair,	Arts,	Carthage.
Drew, Frank, Jr.,	Arts,	Jacksonville, Fla.
Dunnagan, Macon Rush,	Arts,	Yadkinville.
Edwards, Wiley Benjamin,	Science,	Wilson.
Eldridge, James,	Arts,	Dunn.
Eley, Clayton Willard,	Science,	Menola.
Emmett, John Morehead,	Arts,	Oxford.
Fairley, Henry Norden,	Arts,	Monroe.
Feezor, John Gilmer,	Arts,	Silver Hill.
Ferguson, Thomas Wiley,	Arts,	Kendal. [N. Y.
Flume, Arthur James,	Science,	Palatine Bridge,
Fry, Thomas Albert,	Science,	Fayetteville.
Furgerson, Henry Beauregard, Jr.,	Arts,	Halifax.
Gentry, John Robert,	Arts,	Waynesville.
Gibbs, Cecil Norwood,	Arts,	Lake Landing.

Green, Charles Benjamin,	Arts,	Kittrell.
Green, Cary Jones,	Arts,	Raleigh.
Griffith, Charles Manly, Jr.,	Arts,	Thomasville.
Griffith, Thomas Guion,	Arts,	Charlotte.
Guthrie, Thomas Claiborne, Jr.,	Arts,	Charlotte.
Hackney, Willis Douglass,	Arts,	Wilson.
Hamilton, Joseph William,	Arts,	Atlantic.
Hanes, John Wesley,	Arts,	Winston-Salem.
Hardin, Edward Manning,	Science,	Wilmington.
Harper, Drew Sugg,	Science,	Snow Hill.
Harriss, Wesley,	Arts,	Chapel Hill.
Hart, Meade,	Arts,	Mooresville.
Hartley, Samuel Grady,	Science,	Yadkin College.
Haskett, Charles Warren,	Arts,	Greenville.
Henderson, Leonard Willis,	Arts,	Franklinton.
Herring, George Deems, Jr.,	Arts,	Pikeville.
Higdon, Fred Huffman,	Arts,	Higdonville.
Higdon, Madison Vespucius,	Arts,	Deets.
Holland, John Culbreth,	Arts,	Fayetteville.
Holland, John Stephen,	Science,	Newbern.
Holmes, John Albert,	Arts,	Mebane.
Holmes, James Eugene,	Arts,	Mebane.
Holmes, Ralph Wendell,	Arts,	Mebane.
Holton, George Ricks,	Arts,	Winston-Salem.
Horton, Joseph Lloyd,	Arts,	Farmville.
Hudson, James Giles,	Arts,	Spencer.
Hummel, Leslie Ray,	Arts,	Goldsboro.
Hunter, DeWitt Talmage,	Arts,	Matthews.
James, Albert Warren,	Arts,	Laurinburg.
Jeffreys, James Talbot,	Arts,	Goldsboro.
Jerome, Vance,	Arts,	Salisbury.
Johnston, Lemuel Ray,	Arts,	Haw River.
Jones, Beverly Nicholas,	Science,	Walnut Cove.
Jones, Harvey Blair,	Arts,	Sanford.
Jones, Lawrence Carpenter,	Arts,	Atlanta, Ga.
Jones, Neil Frazier,	Arts,	Jacksonville, Fla.
Joyner, Andrew, Jr.,	Arts,	Greensboro.

Justus, Keith,	Arts,	Hendersonville.
Kelly, Donald George,	Arts,	Clarkton.
King, John Royston,	Arts,	Pilot Mountain.
Knowles, Daniel Lamont,	Arts,	Mount Olive.
Labberton, Robert Efland,	Science,	Winston-Salem.
Lasley, Robert Law,	Arts,	Wentworth.
Leach, Oscar,	Arts,	Raeford.
Lee, James Grover,	Arts,	Roxboro.
Lee, Joseph Ira,	Arts,	Four Oaks.
Little, Calvin Myers,	Arts,	Charlotte.
Long, Albert Anderson,	Arts,	Farmington.
Long, Henry Cyrus, Jr.,	Arts,	Charlotte.
Long, Willie Jones,	Arts,	Garysburg.
Lord, William Campbell,	Arts,	Wilmington.
McGee, James William, Jr.,	Arts,	Raleigh.
McKay, William Peter,	Science,	Red Springs.
McKnight, Roy Bowman,	Arts,	Charlotte.
McMillan, Benjamin Franklin, Jr.,	Science,	Red Springs.
McMillan, Douglas Moore,	Science,	Red Springs.
McNeely, Martel Prat,	Arts,	Waxhaw.
McWhorter, Davis Lee,	Arts,	Rocky Mount.
Mason, Robert Bruce,	Science,	Durham.
Mease, Hugh,	Arts,	Canton.
Millender, Charles White,	Arts,	Asheville.
Montgomery, Elbert Springs,	Arts,	Charlotte.
Moore, John Samuel,	Arts,	Bethel.
Oates, Malcolm Norval,	Arts,	Charlotte.
Oates, Thomas Frank,	Arts,	Grover.
Oates, William Clyde,	Arts,	Grover.
Owen, Frank Redding,	Arts,	Yadkin College.
Parker, Carl Putnam,	Arts,	Jackson.
Parker, Ezra,	Arts,	Benson.
Parker, Henry Almon,	Arts,	Benson.
Parker, Samuel Iredell,	Arts,	Monroe.
Parker, Walter Rea,	Arts,	Goldsboro.
Pate, James Gibson,	Arts,	Gibson.
Paty, Robert Morris, Jr.,	Arts,	Bell Buckle, Tenn.

Payne, Lewis Banks,	Arts,	Norfolk, Va.
Peace, James Merrill,	Arts,	Oxford.
Pearson, Bayard Preston,	Science,	Apex.
Peel, Elbert Sidney,	Arts,	Williamston.
Pell, Jesse Shepherd,	Arts,	Spartanburg, S.C.
Pember, Howard Stephen,	Science,	Westerly, R. I.
Pendergraph, Henry Austin,	Arts,	Durham.
Perry, Edwin Jerry,	Arts,	Wilson.
Pitt, William Franklin,	Arts,	Elm City.
Pleasants, Harvey McKay,	Science,	Rowland.
Poteat, Joseph William,	Arts,	Marion.
Pratt, Madison Hampton,	Arts,	Madison.
Prevatt, Joseph Robert,	Arts,	Lumberton.
Price, Lemuel Alexander,	Arts,	Unionville.
Pritchard, William Nelson, Jr.,	Science,	Chapel Hill.
Pritchett, James Turner,	Arts,	Lenoir.
Pruitt, William Obediah,	Arts,	Franklinton.
Pugh, Jesse Forbes,	Arts,	Old Trap.
Pulliam, Ralph Collins,	Arts,	Cherokee.
Ramsey, Jacob Sherman,	Science,	Statesville.
Ranson, Lucius Henry,	Arts,	Huntersville.
Ray, Robert Marsh,	Arts,	Oxford.
Reed, Ralph Augustus,	Arts,	Winston-Salem.
Roberson, John Glenn,	Arts,	Greensboro.
Roberts, Jesse Lee,	Arts,	Wentworth.
Robinson, Melvin,	Arts,	Atlantic.
Ross, John Robert,	Arts,	Charlotte.
Schultz, Alfred Mark,	Arts,	Greenville.
Scott, Robert Lee,	Arts,	Greensboro.
Sears, Benjamin Belver,	Science,	Como.
Sherrod, Watson Newberry,	Science,	Enfield.
Shoaf, Royal Grady,	Arts,	Lexington.
Shuford, Norman Clifford,	Arts,	Fairview.
Sinclair, John Frank,	Arts,	Maxton.
Sisk, Hudson Claude,	Arts,	Waco.
Sloan, Harold Thomas,	Arts,	Franklin.
Smith, Edward Warren,	Arts,	Pilot Mountain.

Smith, Junius McRae,	Science,	Charlotte.
Spence, Ralph Case,	Arts,	Kipling.
Spence, Samuel,	Arts,	Kinston.
Spencer, Walter Lee,	Arts,	Fairfield.
Stevens, Ralph Edwin,	Science,	Sanford, Fla.
Stokes, Percy Bethel,	Science,	Ruffin.
Strayhorn, Isaac Richesson,	Arts,	Durham.
Strong, George Vaughan,	Arts,	Raleigh.
Struthers, James Arthur,	Science,	Grists.
Swindell, Lewis Holmes,	Arts,	Swan Quarter.
Tatum, Harry,	Arts,	Mount Olive.
Taylor, Carl Duffy,	Science,	Newbern.
Taylor, John Douglas, Jr.,	Arts,	Wilmington.
Thomas, James Benton,	Arts,	Raeford.
Thompson, Reid,	Arts,	Teer.
Thompson, William Clarke,	Arts,	Lewiston.
Tolson, Henry Albert,	Arts,	Newport.
Townsend, William Bartel,	Arts,	Red Springs.
Tyson, John Grover,	Arts,	Goldsboro.
Walker, John Alfred,	Science,	Germanton.
Ward, Edwin Smithwick,	Science,	Williamston.
Ward, George Hahn,	Arts,	Waynesville.
Watkins, Wilbur Lawrence,	Arts,	Blanch.
Webster, Felix Litaker,	Arts,	Wilkesboro.
Whitaker, William Pell, Jr.,	Arts,	Durham.
Whiting, Seymour Webster, Jr.,	Arts,	Raleigh.
Wilkinson, Reading,	Science,	Port Gibson, Miss.
Willey, Fletcher Copeland,	Arts,	Gates.
Willis, Henry Stuart,	Arts,	High Point.
Winston, Paul Dent,	Arts,	Franklinton.
Woodley, Edgar Swain,	Arts,	Creswell.
Worth, Alexander McAlister,	Arts,	Asheboro.
Young, William Beauregard, Jr.,	Arts,	Wilson.

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Special Students.

Alford, Wiley Nathan,	Elect. Med.,	Rowland.
Bailey, Isaac Mayo,	Elect. Law,	Smithfield.
Bason, Walter,	Elect. Med.,	Swepsonville.
Bell, Edward Earl,	Elect. Med.,	Polloksville.
Bellois, George William,	Elect. Med.,	Wilmington.
Blair, Merrill William,	Elect. Law,	Wilmington.
Brackett, William Ernest,	Elect. Med.,	Lawndale.
Bradsher, Lawrence Eugene,	Elect. Med.,	Roxboro.
Braswell, James Cornelius, Jr.,	Elect. Med.,	Whitakers.
Brown, Charles Edward,	Elect. Law,	Belcross.
Brownson, Allyn Raymond,	Elect. Med.,	West Asheville.
Burroughs, George Dowell,	Elect. Med.,	Everett.
Cooper, John Albright,	Elect. Med.,	Graham.
Covington, Thomas Thomas, Jr.,	Elect. Med.,	Laurinburg.
Cox, Blaney Williams,	Elect. Med.,	Princeton.
Crumpler, Lawrence Osmond,	Elect. Med.,	Clinton.
Elliott, Forrest,	Elect. Med.,	Shelby.
Evans, Frank Newby,	Elect. Med.,	Fayetteville.
Fearrington, John Bunyan,	Elect. Med.,	Riggsbee.
Finch, Oliver Edwin,	Elect. Med.,	Kittrell.
Foard, Frederick T., Jr.,	Elect. Med.,	Hickory.
Francis, William Gifford,	Elect. Med.,	Waynesville.
Gordon, Donald Henry,	Elect. Finance,	Youngstown, O.
Hill, George Franklin,	Elect. Ministry,	Chocowinity.
House, Wooster Hassell,	Elect. Med.,	Stokes.
Larkin, Ernest Waddell,	Elect. Med.,	Carthage.
Lassiter, Chester Lawrence,	Elect. Med.,	Wilson's Mills.
McAnally, William Fitzgerald,	Elect. Med.,	Madison.
Morrow, Thomas Lacy,	Elect. Med.,	Mebane.
Perrel, David Franklin,	Elect. Med.,	Germanton.
Perry, Hugh Wiston,	Elect. Law,	Mapleville.
Pinner, Carroll Alexander,	Elect. Med.,	Arden.
Roberts, Grady Rudisill,	Elect. Med.,	Lincolnton.
Rogers, David Eugene,	Elect. Med.,	Franklin.
Tolar, Julian Nolley,	Elect. Med.,	Sanford, Fla.
Williams, John Sharpe,	Elect. Med.,	Warsaw.
Williams, Robert Fleet,	Elect. Med.,	Hiddenite. 37

Students in Law.

Austin, James Allen,	New London.
Baker, Braxton Lloyd, A. B., 1907, Erskine College.	Paw Creek.
Battle, Kemp Davis, A. B., 1909.	Rocky Mount.
Bauguess, Walter Raleigh,	Jefferson.
Bellamy, Chesley Calhoun, A. B., 1909.	Wilmington.
Bennett, Oscar Kimsey,	Waynesville.
Bond, Edward Griffith,	Edenton.
Broadfoot, Charles Wetmore, Jr.,	Fayetteville.
Burgwin, Kenneth Ogden,	Pittsburgh, Pa.
Cansler, Edgar Thomas, Jr.,	Charlotte.
Cappelmann, Frederick William, A. B., 1908, Newberry College.	Charleston, S. C.
Carter, Jesse Hollingsworth, B. S., 1909, Davidson College.	Mount Airy.
Coughenour, William Chambers, Jr., A. B., 1908.	Salisbury.
Cox, Foster Nugent,	Leaksville.
Currie, Walter Lee,	Jackson Springs.
Davenport, Louis Ludford,	Rocky Mount.
Dockery, Henry Clay, Jr., A. B., 1909, Wake Forest College.	Rockingham.
Edmonds, William Rufus, A. B., 1910.	Elkin.
Ellington, Kenneth Raynor,	Clayton.
Graham, Frank Porter, A. B., 1909.	Charlotte.
Gudger, Herman Alexander,	Asheville.
Guion, John Amos, A. B., 1910.	Newbern.
Haizlip, Porter Thomas,	Leaksville.
Helsabeck, Charles Robert,	Rural Hall.
Hester, Francis Eugene, LL.B., 1910.	Raleigh.
Hester, John William, A. B., 1908.	Hester.

Hogue, Cyrus Dunlap, Chapel Hill.
A. B., 1909, University of the South.
Hunter, Louis Jones, Charlotte.
B. S., 1906, Muskingum College.
Jones, Ulysses Simpson, Rockingham.
Keeble, Currin Greaves, Raleigh.
Leary, Herbert Ross, Edenton.
Lindsay, Raleigh Cabell, Madison
A. B., 1906, Guilford College.
Long, William Lunsford, Garysburg.
A. B., 1909.
Lynch, Dozier Addison, Edgefield, S. C.
A. B., 1910, Davidson College.
McBee, Silas, Jr., Great Neck, N. Y.
A. B., 1906, University of the South.
McGowan, William Tilman, Swan Quarter.
A. B., 1907; S. M., 1908.
MacLean, John Allan, Maxton.
McLean, Richard Angus, Lumberton.
McLendon, Lennox Polk, Wadesboro.
S.B., 1910, North Carolina College of Agriculture & Mechanic Arts.
McNairy, Wyatt McCoy, Greensboro.
McRae, Donald Conroy, Chapel Hill.
A. B., 1909.
Mears, George Folger, Wilmington.
Milliken, Jesse Fearrington, Pittsboro.
Moore, Thomas Enloe, Webster.
Murray, Archibald R., Burgaw.
Newsom, William Luther, Millen, Ga.
A. M., 1906, Central University.
Newton, David Zero, Shelby.
A. B., 1908.
Nichols, Spencer Van Bokkelen, Wilmington.
Patterson, James Southerland, Chapel Hill.
A. B., 1910.
Poisson, Louis Julian, Wilmington.
Powell, Walter Hoge, Whiteville.
Rhodes, William Henry, Riverdale,

Robinson, John Moseley, Ph.B., 1907.	Goldsboro.
Robinson, Russell Marable, A. B., 1909.	Goldsboro.
Rodman, William Blount, Jr., A. B., 1910.	Charlotte.
Rogers, Romulus Rufa,	Marshall.
Ruffin, Colin Bradley, A. B., 1909.	Tarboro.
Shields, John Montgomery,	Enfield.
Shore, William Thomas, S. B., 1905.	Charlotte.
Slagle, Edwin Kirkpatrick,	Andrews.
Smith, Clarence James,	Duke.
Smith, Howell Lindsay,	Raleigh.
Solomon, Harry Meyer,	Wilmington.
Spencer, Carroll Baxter, A. B., 1910.	Fairfield.
Spicer, Charles Booker, A. B., 1909.	North Wilkesboro.
Spruill, James Franklin, Ph.B., 1909; LL.B., 1910.	Oriental.
Stacy, Marvin Hendrix, Ph.B., 1902; A. M., 1904.	Chapel Hill.
Stewart, Roach Sidney, Ph.B., 1903.	Lancaster, S. C.
Strange, Robert Wright,	Wilmington.
Sutton, Frederick Isler, A. B., 1908.	Kinston.
Thomas, Francis Edgar, LL.B., 1902, Wake Forest College.	Wadesboro.
Tillett, Charles Walter, Jr., A. B., 1909.	Charlotte.
Tillett, John,	Charlotte.
Uzzell, Thomas Randolph,	Wilson.
Wall, Robert Winfred, S. B., 1909, Weaverville College.	Morganton.
Wallace, Fitzhugh Ernest,	Kenansville.
Ward, William Ira,	Swepsonville.
Whitley, Henry Ward Beecher,	Monroe.

Whitney, Floyd Gilbert,	Bessemer City.
Wiggins, James Middleton,	Jacksonville.
Williams, Clawson Lee,	Sanford.
Williams, Henry Elliott,	Linden.
Wilson, George Edward, Jr., B. S., 1910, Davidson College.	Charlotte.
Woltz, Albert Edgar, A. M., 1907, Central University.	Chapel Hill.
Woodard, William Coleman, Jr., A. B., 1908.	Rocky Mount.
Wyatt, Marshall Boylan,	Durham.

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SPECIAL STUDENTS IN LAW.

Beckerdite, William Hugh,	Winston-Salem.
Cannon, James Ross,	Concord.
Capelle, Paul Reese,	Rocky Mount.
Carpenter, Jesse Earl,	Trinity.
Clements, Thomas DeWitt,	Asheville.
Daughtridge, John Clarence,	Rocky Mount.
Davis, Quinton Clarence, Jr.,	Windsor.
Dorsett, Henry Grady,	Chapel Hill.
Douglass, Clyde Augustus,	Raleigh.
Dupree, Franklin Tell,	Cardenas.
Fulton, James Irving,	Winston-Salem.
Gavin, Edward Lee,	Roseboro.
Hasty, Claude Herndon,	Monroe.
Johnson, Cyrus Murray,	Goldsboro.
McGaskill, Bascom Wentworth,	Fayetteville.
Moore, Clayton,	Williamston.
Patrick, Ralph Clinton,	Gastonia.
Petree, Walter Garfield,	Danbury.
Reed, Charles Wingate,	Washington, D. C.
Whitfield, Nathan Fitzhugh Lee,	Clinton.
Wilkes, James Christopher,	Maxton.
Willis, George Thomas,	Newbern.

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Students in Medicine.

Alexander, Samuel Allen,	Second,	Creswell.
Allison, James Richard,	First,	Davidson River.
Armstrong, Charles Wallace,	First,	Troy.
Bailey, Hubert Jesse,	First,	Apex.
Baynes, Ralph Henry,	First,	Hurdles Mill.
Beavers, John Thomas,	Second,	Durham.
Belk, William Parks,	First,	Charlotte.
Bell, Baxter Israel,	First,	Swan Quarter.
Bender, Ernest Linwood,	First,	Polloksville.
Blalock, Burman Karl,	Second,	Norwood.
Bowdoin, George Edward,	First,	Wilmington.
Boykin, Irvine Manning,	First,	Boykin, S. C.
Brandon, William David Rockwell,	First,	Statesville.
Burleson, William Brown,	First,	Plumtree.
Cocke, Eugene Rankin,	Second,	Asheville.
Drane, Robert,	Second,	Edenton.
A. B., 1910.		
Elder, David Lane,	Second,	Trinity.
English, Ernest Lafayette,	Second,	Faust.
Flowers, Charles Eley,	Second,	Cash Corner.
Floyd, Fred Frits,	First,	Cherokee.
Graul, Frederick Workman,	Second,	Wernersville, Pa.
Harris, Jack Hawley,	Second,	Raleigh.
Hedgpeth, Harry Malcomb,	Second,	Fayetteville.
Hemphill, Clyde Hoke,	Second,	Nebo.
Kendrick, John Fox,	First,	Rock Hill, S. C.
Lackey, Franklin Harris,	First,	Fallston.
Lucas, Philip Edward,	Second,	Currie.
Means, Paul Barringer,	First,	Concord.
Oliver, Adlai Stevenson,	First,	Selma.
Pace, Carl Busbee,	First,	Maxton.
Parrish, Robert Eunice,	First,	Smithfield.
Petree, Paul Augustus,	First,	Germanton.
Ray, Clarence Broadway,	First,	Waynesville.
Ray, Hickman,	First,	Raleigh.

Rodman, Nathaniel Fulford,	First,	Charlotte.
Saunders, Sheldon Asa,	First,	Aulander.
Sloan, David Bryan,	First,	Ingold.
A. B., 1910.		
Speight, James Ambler,	Second,	Whitakers.
Stockdon, Walter Irving,	Second,	Chapel Hill.
Thompson, Sanford Webb,	Second,	Neuse.
Turlington, Lee Franklin,	First,	Smithfield.
A. B., 1910.		
Venable, John Manning,	First,	Chapel Hiil.
A. B., 1910.		
Walker, John Barrett,	First,	Union Ridge.
Warren, Andrew Jackson,	First,	Bushy Fork.
Wheeler, George Alexander,	Second,	Higgins.
Wilkerson, Thaddeus Earl, Jr.,	First,	Roxboro.
Wilkins, John William,	Second,	Rose Hill.
Williams, Louis Hicks,	First,	Faison.
Williams, Lester Lonnie,	Second,	Old Fort.
Withers, George Lee,	Second,	Davidson.
Wyatt, Wortham,	Second,	Wadesboro.
A. B., 1908.		

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Students in Pharmacy

Anderson, Joseph M.,	First,	Greenville.
Atwater, Garland Marvin,	First,	Oxford.
Barker, Ernest Jerome,	First,	Rowland.
Bennett, Kelly Erwin,	First,	Bryson City.
Blackwelder, George Sumpter,	First,	Hickory.
Browning, Howard Raymond,	First,	Halifax.
Coleman, Henry Grady,	Second,	Silver Street, S. C.
Condrey, James Edward, Jr.,	First,	Enfield.
Cox, Garnett M.,	First,	Lowell.
Davenport, Lee,	Second,	Pactolus.
Fetzer, Frank Goodson,	First,	Wadesboro.
Harrelson, Rosen Cranse,	First,	Tabor.
Harris, Walton Chester Field,	Second,	Hope Mills.
Hesterly, Louis Enlowe,	Second,	Hendersonville.

Hoffman, Joseph Filson,	Second.	High Point.
Hunnicutt, Fabius Jefferson,	Second,	Raleigh.
Jones, Alpheus,	First,	Warrenton.
Jones, Otis Vance,	First,	Swan Quarter.
Marrow, Charles Taylor, Jr.,	First,	Rowland.
Mills, Joseph Asher,	First,	Mount Tabor.
Mills, John William,	First,	Wadesboro.
Moore, John Patrick,	First,	Cary.
Murray, John Edward,	Second,	Durham.
Neeley, Herron,	First,	Charlotte.
Reeves, Lester Abner,	First,	Chapel Hill.
Reins, Charles Cicero,	First,	Wilkesboro.
Rhodes, Cader,	Second,	Jacksonville.
Ross, Jacob Boyd,	First,	Lexington.
Tillett, Ernest Noel,	Second,	Durham.
A. B., 1904, Trinity College; A. M., 1905, Vanderbilt University.		
Waters, George Walter, Jr.,	Second,	Goldsboro.
Webb, Alexander Grady,	First,	Chapel Hill.
Whitehead, Jefferson Davis, Jr.,	First,	Enfield.
Williams, Archibald Hunter A.,	Second,	Oxford.
Zuckerman, Isaac Louis,	Second,	Durham.

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ADDENDUM

JUNIOR CLASS

Parker, Samuel Green,	Arts,	Kinston.

GENERAL SUMMARY

Boards of Government and Instruction and Other Officers

Trustees		81
Professors	50	
Instructors	9	
Fellows and Assistants	25	
	—	84
Other Officers		9

Students

THE COLLEGE:		
Senior Class	79	
Junior Class	113	
Sophomore Class	152	
Freshman Class	203	
Special Students	37	
	—	584
THE GRADUATE SCHOOL		25
THE SCHOOL OF LAW:		
Students in Law	86	
Special Students in Law	22	
	—	108
THE SCHOOL OF MEDICINE:		
Second-Year Students	21	
First-Year Students	30	
	—	51
THE SCHOOL OF PHARMACY:		
Second-Year Students	12	
First-Year Students	22	
	—	34
Total number of students		802
Deduct for names counted twice		15
		787

SUMMARY BY STATES

North Carolina	727	Pennsylvania	2
South Carolina	14	District of Columbia	1
Florida	11	Japan	1
Tennessee	8	Kentucky	1
Virginia	4	Rhode Island	1
Cuba	4	Mississippi	1
Georgia	3	New Jersey	1
Alabama	2	Ohio	1
New York	2	Texas	1
Oklahoma	2		

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Henry Armand London, A. B., *Secretary.*
James Cole Taylor, B. S., *Recording Secretary.*

The membership includes all persons who have matriculated at the University of North Carolina in any department except the Summer School and all who are or have been officers of the institution.

An effort is now being made to accomplish a more thorough organization of the Alumni. The desire is that the individual alumni shall form into Local Alumni Associations in every community. The Local Associations are to form by proportional representation the General Association of the Alumni. The next meeting of the General Association will be held in Gerrard Hall at the University at the Commencement in June, 1911. Local Associations have been formed in certain cities and others will be established in the course of the year. It is to be hoped that every alumnus will concern himself in assisting the organization in his county or town. A printed statement of the plan of organization has been prepared and will be supplied on request. Inquiries should be directed to Mr. James C. Taylor, Chapel Hill, N. C.

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M. D. Gillam, *Vice-President.*
Francis Gillam, *Secretary and Treasurer.*

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A. L. Starr, *Vice-President.*
A. C. Kerley, *Secretary.*
W. D. Gilmore, *Treasurer.*

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H. McMillan, *Vice-President.*

ROWAN COUNTY ALUMNI ASSOCIATION, SALISBURY, N. C.

Walter Murphy, *President.*
W. W. McKenzie, *Vice-President.*
J. M. Julian, *Secretary.*

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R. H. Sykes, *Vice-President.*
S. C. Chambers, *Secretary.*

CALDWELL COUNTY ALUMNI ASSOCIATION, LENOIR, N. C.

A. A. Kent, *President.*
J. L. Harris, *Secretary.*

WAKE COUNTY ALUMNI ASSOCIATION, RALEIGH, N. C.

Perrin Busbee, *President.*
J. M. Fleming, *Vice-President.*
W. J. Peele, *Secretary.*

JOHNSTON COUNTY ALUMNI ASSOCIATION, SMITHFIELD, N. C.

E. W. Pou, *President.*
H. P. Stevens, *Secretary.*

WILSON COUNTY ALUMNI ASSOCIATION, WILSON, N. C.

T. J. Hadley, *President.*
F. C. Archer, *Secretary.*
Alvis Patterson, *Treasurer.*

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F. M. Pinnix, *Secretary.*

NEW HANOVER COUNTY ALUMNI ASSOCIATON, WILMINGTON, N. C.

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R. L. Gray, *Vice-President.*
Benjamin Bell, *Secretary.*

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N. R. Graham, *Vice-President.*
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L. F. Abernethy, *President.*
B. B. Blackwelder, *Secretary.*

NORFOLK ALUMNI ASSOCIATION, NORFOLK, VA.

J. H. Winston, *President.*
G. R. Berkeley, *Secretary.*

ATLANTA ALUMNI ASSOCIATION, ATLANTA, GA.

F. B. Dancy, *President.*
J. R. Moore, *Secretary.*

EDGECOMBE COUNTY ALUMNI ASSOCIATION, TARBORO, N. C.

J. T. Bridges, *President.*
George Howard, *Vice-President.*
J. T. Johnston, *Secretary.*

	8:30	9:25	9:45	10:40	11:35	12:30	2:30
	A		B	C	D	E	
MON.	Chem. 7 A Educa'n 3, 4 Eng. 2, II Eng. 5 French A, V Geology 1 German A, I German 1, II Greek A Latin 1, III, VI Math. 1, I, II, VII Math. 5 Physics 6	CHAPEL	Chem. 2 Chem. 7 B Educat'n 9 Eng. 1, IV Eng. 6 French A, II French 1, I, III German A, IV Greek 2 History 1, I Math. 3A Math. 8 Philos. 4	Chem. 16 Educat'n 7, 8 Eng. 1, III Eng. 4 French 3 Geology 7 German 3, 7 Greek 1, II Latin, 1, I, V Latin 2, I Physics 1, I Physics 7 Pub. Spkg. 1, I Zoology 1	Chem. 1 Economics 4 Educat'n 5, 6 Eng. 9 French 2 Geology 3 German 8 History 8 Latin 1, IV Math. 1, V, VI Math. 4 Math. 7A	Drawing 4 Educat'n 1, 2 Eng. 2, IV Eng. 15 French A, IV German A, II Greek 1, I History 1, IV History 7 Latin 1, II Math. 1, III, IV VIII Math. 2, II Philos. 2	Pub. Spkg. 1, V Laboratory: Chem. 1, I Chem. 4 Chem. 8 Chem. 9 Physics 1, I Physics 4 Zoology 2
	F		G	H	I	K	
TUE.	Botany 2 Chem. 7 Eng. 3 Eng. 3A Eng. 16 Geology 8 German 4, 5 German 6 Greek 3 Greek 10, 5 Latin 1, IV Math. 1, V, VI Physics 4 Pub. Spkg. 2	CHAPEL	Chem. 5 Econom. 2 Eng. 1, II Eng. 2, I, V Eng. 11 French 1, II, IV Geology 4 Germ. A, III Greek 9 Latin 6 Latin 7A, 8 Math. 7 Philos. 1 Physics A	Chem. 6 Eng. I, V Eng. 14 French A, III French 4 Greek 6 History 1, II History 3 Latin 2, II, III Libr. Admn. Math. 10 Physics 1, II Spanish 1 Pub. Spkg. 3	Econom. 1 Eng. 1, I, Eng. 10 French A, I German 1, I Greek 7 History 1, III Latin 10 Math 2, I Math. 3 Physics 8. 9	Botany 1 Econom. 3 Educat'n 10, 11 German 2 Greek 1, I History 9 History 11, 6, Latin 1, II Math. 1, III, IV, VIII Math. 11 Pedagogy 5, 6 Philos. 3 Physics 5	Pub. Spkg. 1, IV Laboratory: Botany 1, I Chem. 1, II Chem. 3, I Chem. 8 Drawing 2, 3 Geology 2 Physics 1, II
	A		B	C	D	E	
WED.	Educat'n 3, 4 Eng. 2, II, Eng. 5 French A, V Geology 1 German A, I German 1, II Greek A Latin 1, III, VI Math. 1, I, II, VII Math. 5 Physics 6	CHAPEL	Chem. 2 Chem. 7B Education 9 Eng. 1, IV Eng. 6 French A, II French 1, I, III Geology 6 German A, IV Greek 2 History 1, I History 10 Math. 3A Math. 8 Philos. 4	Chem. 16 Educati'n 7,8 Eng. 1, III Eng. 4 French 3 Geology 7 German 3, 7 Greek 1, II History 2 Latin 1, I, V Latin 2, I Math. 3B Physics 1, I Physics 7 Zoology 1	Chem. 1 Econom. 4 Educat'n 5, 6 French 2 Geology 3 German 8 Greek 4 History 8 Latin 1, IV Latin 5 Math. 1, V, VI Math. 4 Math. 7A	Drawing 4 Educat'n 1, 2 Eng. 2, IV Eng. 15 French A, IV German A, II Greek 1, I History 1, IV History 7 Latin 1, II Math. 1, III, IV, VIII Math. 2, II Physics 2 Physics 4A	Laboratory: Botany 1, II Chem. 1, III Chem. 3, II Chem. 4 Chem. 8 Drawing 2, 3 Physics 4 A

	8:30	9:25	9:45	10:40	11:35	12:30	2:30
THU.	F Chem. 7 Eng. 2, III Eng. 3 Eng. 3A Eng. 16 Geology 8 German 4, 5 German 6 Greek A Greek 10, 5 Latin 1, III, VI Math. 1, I, II, VII Pub. Spkg. 2	CHAPEL	G Chem. 5 Econom 2 Eng 1, II Eng. 2, I, V Eng. 11 French 1, II, IV Geology 4 Germ. A, III Greek 9 Latin 6 Latin 7A, 8 Math. 7 Philos. 1 Physics A	H Chem. 6 Eng. 1, V Eng. 14 French A, III French 4 Greek 6 History 1, II History 3 Latin 2, II, III Libr. Admn. Math. 10 Physics 1, II Spanish 1 Pub. Spkg. 3	Econom. 1 Eng. 1, I Eng. 10 French A, I German 1, I Greek 7 History 1, III Latin 10 Math. 2, I Math. 3 Physics 8, 9	K Botany 1 Econom. 3 Educat'n 10, 11 German 2 Greek 1, II History 9 History 11, 6 Latin 1, I, V Math. 11 Pedagogy 5, 6 Philos. 3. Physics 5 Pub. Spkg. 1, III	Laboratory: Botany 2 Chem. 1, IV Chem. 3, I Chem. 8 Chem. 9 Drawing 1 Geology 2 Physics 4 Zoology 1, I Zoology 2
FRI.	A Chem. 7A Educat'n 3, 4 Eng. 2, II Eng. 5 French A, V Geology 1 German A, I German 1, II Greek A Latin 1, III, VI Math. 1, I, II, VII Math. 5 Pedagogy 3,4 Physics 6	CHAPEL	B Chem. 2 Education 9 Eng. 1, IV Eng. 6 French A, II French 1, I, III German A, IV Greek 2 History 1, I History 10 Math. 3A Math. 8 Philos. 4	C Chem. 16 Educati'n 7,8 Eng. 1, III Eng. 4 French 3 Geology 7 German 3, 7 Greek 1, II History 2 Latin 1, I, V Latin 2, I Math. 3B Physics 1, I Physics 7	D Chem. 1 Econom. 4 Eng. 9 French 2 Geology 3 German 8 Greek 4 History 8 Latin 1, IV Latin 5 Math. 1, V, VI Math. 4	E Eng. 2, IV French A, IV German A, II Greek 1, I History 1, IV History 7 Latin 1, II Math. I, III, IV, VIII Math. 2, II Pedagogy 1, 2 Philos. 2 Physics 2 Physics 4A	Pub. Spkg. 1, II Laboratory: Botany 2 Chem. 1, V Chem. 3, I Chem. 3, II Chem. 4 Chem. 8 Geology 4 Physics 7 Zoology 1, II Zoology 2
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First Day	Second Day	Third Day	Fourth Day	Fifth Day
Chemistry 6	Chemistry 5	Economics 1	Botany 2	Education 7, 8
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French A	Chemistry 7 B	English 10	English 3	English 4
French 4	Economics 2	German 1	English 11	French 3
Greek 3	English 1	Greek 7	English 16	Geology 7
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History 3	Geology 4	Math. 2	German 6	History 4
Latin 2	German A	Math. 3	Greek 5, 10	Latin 2
Library Adm.	Greek 14	Spanish 2	Physics 4	Math. 3 B
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Physics 1	Latin 7, 8			Physics 7
Physics 11	Math. 7			Zoology 1
Spanish 1	Philosophy 1			
Pub. Spkg 3	Physics A			

Sixth Day	Seventh Day	Eighth Day	Ninth Day	Tenth Day
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English 2	English 2	Education 9	Economics 3	Economics 4
English 5	French A	English 6	Educ'n 10, 11	Education 5, 6
Geology 1	German A	French A	German 2	English 9
German A	Greek 1	French 1	History 9	French 2
German 1	History 7	Geology 6	History 11, 6	Geology 3
Greek A	Math. 1	German A	Latin 1	German 8
Latin 1	Math. 2	Greek 1	Philosophy 3	Greek 4
Math. 1	Philosophy 2	History 1	Physics 5	History 8
Physics 6	Physics 2	History 10	Physics 10	Latin 5
	Physics 4 A	Math. 3 A		Math. 1
		Math. 8		Math. 4
		Philosophy 4		Math. 7 A

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